

Science (General)

For applied science and technology, see Class T

Periodicals. By language of publication

1.A1

Polyglot

1.A3-Z

English

2

French

3

German

4

Other languages (not A-Z)

(9)

Yearbooks

see Q1+

Collected works (nonserial) see Q111+

Societies

Including works about societies, serial publications of societies

10

International

America

11

United States

21

Canada

22

Latin America

23

Mexico

25

Central America

29

West Indies

33

South America

Europe

41

Great Britain

44

Czechoslovakia

44.2

Hungary

44.4

Austria

46

France

49

Germany

52

Greece

54

Italy

55

Vatican City

56

Belgium

56.2

Luxembourg

57

Netherlands

60

Soviet Union

60.18

Ukraine

60.2

Finland

60.4

Poland

Baltic States

60.6

Estonia

60.7

Latvia

60.8

Lithuania

61

Scandinavia (General)

62

Denmark. Iceland

63

Norway

64

Sweden

Societies

Europe -- Continued

- 65 Spain. Portugal
- 67 Switzerland
- 69 Romania
- 69.2 Yugoslavia
- 69.3 Slovenia
- 69.4 Bulgaria
- Turkey see Q80.T8

Asia

- 72 China
- 72.5 Taiwan
- 73 India
- 74 Indochina
- 75 Indonesia
- 76 Philippines
- 77 Japan
- 80.A-Z Other regions or countries, A-Z
 - e.g.
- 80.C4 Ceylon. Sri Lanka
- 80.I67 Iran
- 80.I7 Israel
- 80.J67 Jordan
- 80.K6 Korea
- 80.P3 Pakistan
- 80.Q38 Qatar
- 80.R8 Russia in Asia. Siberia
- 80.S2 Saudi Arabia
- 80.S5 Singapore
- 80.S64 Southeast Asia
- Sri Lanka see Q80.C4
- 80.S9 Syria
- 80.T5 Thailand
- 80.T8 Turkey

82 Arab countries

83 Islamic countries

Africa

- 85 South Africa
- 85.2 Kenya
- 85.4 Nigeria
- 85.6 Zimbabwe
- 85.8 Namibia. South-West Africa
- 87 Egypt
- 89 Senegal
- 89.2 Mauritius
- 89.5 Sudan
- 91.A-Z Other regions or countries, A-Z

Societies

Africa

Other regions or countries, A-Z -- Continued

- 91.A47 Algeria
 91.A5 Angola
 91.B45 Benin
 91.B85 Burkina Faso
 91.B87 Burundi
 91.C17 Cameroon
 91.C4 Central Africa
 91.C48 Chad
 91.C6 Congo (Democratic Republic). Zaire
 91.E84 Ethiopia
 91.G5 Ghana
 91.M27 Madagascar
 91.M3 Malawi
 91.M55 Morocco
 91.M6 Mozambique
 (91.N28) Namibia
 see Q85.8
 91.S9 Sub-Saharan Africa
 91.S95 Swaziland
 91.T8 Tunisia
 91.Z33 Zambia
- 93 Australia
 94 New Zealand
 99 Pacific islands
 101 Congresses
- Museums. Exhibitions
 Cf. Q182.4 Science fairs
- 105.A1 General works
 105.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
- Collected works
- 111 Series of monographs. Serial collections (nonperiodical)
 For serial publications of universities or other serial
 publications not issued by societies see Q1+
 For serial publications of societies see Q10+
- 113 Collected works of individual authors
- Scientific voyages and expeditions (General)
 For expeditions of special fields, see the field, e.g. G145+
 Geographical exploration; QH11 Naturalists' expeditions;
 TL799 Flights to special planets; etc.
- 115 General works
 116 Handbooks for scientific expeditions
 121 Encyclopedias
 123 Dictionaries

- 124 Translating services. Translating
Cf. T11.5 Technical translating
- History
Including science and state
- 124.6 Periodicals, societies, congresses, serial publications
- 124.7 Collected works (nonserial)
- 124.8 Dictionaries and encyclopedias
- 124.85 Nomenclature, terminology, notation, abbreviations
General works see Q125+
- 124.95 Ancient
- 124.97 Medieval
Modern
- 125 General works
- 125.2 Renaissance through 1700
- 125.4 Outlines, syllabi
- 125.6 Pictorial works and atlases
- 126 Popular works
- 126.4 Juvenile works
- 126.8 Addresses, essays, lectures
- 126.9 Study and teaching. Research
- 127.A-Z By region or country, A-Z
e. g.
- 127.G4 Great Britain
- 127.G7 Greece
- 127.2 Developing countries
- 128 Contributions to science. By religious or ethnic groups
- 130 Women in science. Women scientists
For biography see Q141+
Cf. HQ1397 Women in science and the arts
- Biography
- 141 Collective
- 143.A-Z Individual, A-Z
e.g.
- 143.G4 Galvani, Luigi
- 143.H5 Helmholtz, Hermann von
- 143.P2 Pasteur, Louis
- 143.S8 Swedenborg, Emanuel
- 145 Directories
- Science as a profession. Vocational guidance
Cf. Q130 Women in science
- 147 General works
- 148 Employment surveys, manpower requirements, statistics,
etc.
- 149.A-Z By region or country, A-Z
- Brain drain
- 150 General works
- 150.2.A-Z By region or country, A-Z

- Early works through 1800
 - Including textbooks
- 151 Ancient
- 153 Medieval
- 155 1500-1700
- 157 1701-1800
- General works and treatises
- 158 1801-1969
- 158.5 1970-
- Textbooks
 - Advanced
 - 160 1801-1969
 - 160.2 1970-
 - Elementary
 - 161 1801-1969
 - 161.2 1970-
 - 161.7
- Pictorial works and atlases
 - Cf. Q222 Scientific illustration
- 162 Popular works
- 163 Juvenile works
- 164 Recreations, home experiments, etc.
 - Including experiments for children
 - Cf. Q182.3 Science projects
- 167 Anecdotes, facetiae, satire, etc.
- 171 Addresses, essays, lectures
- 172 Special aspects of the subject as a whole
- 172.5.A-Z Special topics, A-Z
- 172.5.C45 Chaotic behavior in systems
 - Including pattern formation
 - Cf. QC174.17.C45 Quantum theory
- 172.5.C74 Creative ability in science
- 172.5.E77 Errors
- (172.5.F7) Fraud
 - see Q175.37
- 172.5.H47 Heresy in science
- 172.5.I5 International cooperation
- 172.5.M87 Music
- Parapsychology and science see BF1045.S33
- Pattern formation see Q172.5.C45
- 172.5.P65 Popular culture
- 172.5.P77 Pseudoscience
- 172.5.P82 Public opinion
- 172.5.S34 Science indicators
- 172.5.S47 Serendipity in science
- 172.5.S95 Symmetry
- 172.5.S96 Synchronization

- Special topics, A-Z -- Continued
- 172.5.V37 Variational principles
Cf. QC174.17.V35 Quantum theory
- 173 Miscellany and curiosa
- Philosophy. Methodology
Cf. B67 Philosophy in relation to science
Cf. BF1275.S3 Spiritualism and science
Cf. BJ57 Ethics and science
Cf. BL239+ Religion and science
Cf. BT590.S4 Christ and science
- 174 Periodicals, societies, congresses, serial publications
- 174.6 Collected works (nonserial)
- 174.7 Dictionaries and encyclopedias
- 174.8 History
- 175 General works, treatises, and advanced textbooks
- 175.2 Juvenile works
- 175.3 Addresses, essays, lectures
- Special topics, A-Z
- 175.32.A-Z Abduction (Logic)
- 175.32.A24 Aesthetics
- 175.32.A47 Aesthetics
- 175.32.C38 Causation
- 175.32.C65 Complexity (Philosophy)
- 175.32.C66 Computer models see Q175.32.S5
- 175.32.C66 Constructive realism
- 175.32.D52 Dialectical materialism
- 175.32.D53 Dialogue
- 175.32.D96 Dynamics
- 175.32.E44 Emergence (Philosophy)
- 175.32.E85 Epistemology, Virtue see Q175.32.V57
- 175.32.E85 Evolution
- 175.32.E97 Explanation
- 175.32.H95 Hylomorphism
- 175.32.I34 Idéologues (French philosophers)
- 175.32.I54 Inference
- 175.32.I58 Intellectual freedom
- 175.32.K45 Knowledge, Theory of
- 175.32.K45 Logic see Q175.32.R45
- 175.32.M38 Mathematical models. Mathematics
- 175.32.M43 Meaning (Philosophy)
- 175.32.N38 Naturalism
- 175.32.N68 Nothing (Philosophy)
- 175.32.O27 Observation
- 175.32.O58 Ontology
Cf. Q387.4 Ontologies in information theory
- 175.32.P37 Paradox
- 175.32.R42 Realism
- 175.32.R45 Reasoning. Logic

- Philosophy. Methodology
 Special topics, A-Z -- Continued
- 175.32.R47 Reductionism
 175.32.S5 Simulation. Computer models
 Class here works on philosophical and methodological
 aspects of simulation and computer modeling in science
 For works on the mathematics of computer simulation
 see QA76.9.C65
- 175.32.S78 Structuralism
 175.32.S83 Subjectivity
 175.32.T56 Time
 175.32.T78 Truth
 175.32.V35 Values
 175.32.V57 Virtue epistemology
 175.32.V65 Vitalism
- Scientific ethics
 Cf. Q180.55.M67 Moral and ethical aspects of research
- 175.35 General works, treatises, and textbooks
 175.37 Fraud
- Social aspects
 Class here works that discuss the impact of science on modern
 society and the sociology of science.
 For works on the role of science in the history and
 development of civilization see CB478
- 175.4 Periodicals, societies, congresses, serial publications
 175.46 History
 175.5 General works, treatises, and textbooks
 175.52.A-Z By region or country, A-Z
 175.54 Developing countries
 175.55 Addresses, essays, lectures
- 176 Periodicity. Cycles
 177 Classification of the sciences
 Cf. BD239.2+ Speculative philosophy
- 179 Nomenclature, terminology, notation, abbreviations
- Research
- 179.9 Periodicals, societies, congresses, serial publications
 179.92 Collected works (nonserial)
 Communication of information
- 179.94 General works
 179.96 Information services
 179.97 Computer network resources
 Including the Internet
- 179.98 Directories
- 180.A1 General works, treatises, and advanced textbooks
 History
- 180.A3 General works
 180.A5-Z By region or country, A-Z

Research -- Continued

- 180.2 Juvenile works
- 180.3 Handbooks, tables, formulas, etc.
- 180.4 Anecdotes, facetiae, satire, etc.
- 180.5 Addresses, essays, lectures
- 180.55.A-Z Special topics, A-Z
 - Prefer classification by country
- 180.55.A83 Audiovisual aids
- 180.55.C54 Citizen participation
- 180.55.C55 Classification
- 180.55.C6 Cost
- 180.55.D57 Discoveries
- 180.55.E25 Econometric models see Q180.55.E25
- 180.55.E25 Economic aspects
 - Including econometric models
 - For works on the impact of research on the economy see HC79.R4
- 180.55.E4 Electronic data processing
- 180.55.E58 Environmental aspects
- 180.55.E65 Equipment and supplies
- 180.55.E9 Evaluation
- 180.55.F5 Finance
- 180.55.G6 Government support
- 180.55.G7 Private grants. Foundations. Endowments
- 180.55.G77 Group work
- 180.55.I45 Information technology
- 180.55.I48 Interdisciplinary research
- 180.55.M3 International cooperation see Q172.5.I5
- 180.55.M3 Management
- 180.55.M38 Mathematical models
- 180.55.M4 Methodology
- 180.55.M67 Moral and ethical aspects
- 180.55.P7 Proposal writing
- 180.55.P75 Psychological aspects
- 180.55.Q36 Quantitative research
- 180.55.R43 Reduced gravity environments
- 180.55.S62 Social aspects
- 180.55.S7 Statistical methods
- 180.55.V6 Vocational guidance
- Laboratories
- 180.56 General works
- 180.57 Management
- 180.58 Records. Laboratory notebooks
- 180.6.A-Z By region or country, A-Z
 - Subarrange each country by Table Q6
- 180.7 Astronautics in science
 - Cf. TL798.S3 Scientific satellites

Study and teaching

Class here works on the study and teaching of general science at all levels or at the secondary level and higher.

For works on the study and teaching of general science in elementary schools or in both elementary and secondary schools see LB1585+

For programmed texts see Q160+

Cf. Q190+ Audiovisual aids in science teaching

- 181.A1 Periodicals, societies, congresses, serial publications
 181.A2-Z General works, treatises, and textbooks
 181.3 Addresses, essays, lectures
 181.5 Outlines, syllabi
 182 Problems, exercises, examinations
 182.3 Experiments
 Including science projects
 Cf. Q164 Recreations, home experiments, etc.
- 182.4 Science fairs
 182.5 Laboratory manuals
 182.6 Competency-based education
 182.7 Electronic information resources
 Including computer network resources, the Internet, digital libraries, etc.
- Laboratories
- 183.A1 General works
 183.A3-Z By region or country, A-Z
 Subarrange each country by Table Q6
 By region or country
 United States
 183.3.A1 General works
 183.3.A2-Z By region or state, A-Z
 Subarrange each state by Table Q7
 183.4.A-Z Other regions or countries, A-Z
 Subarrange each country by Table Q7
- 183.9 Data processing
 Instruments and apparatus (General)
- 184 Periodicals, societies, congresses, serial publications
 184.5 Dictionaries and encyclopedias
 185 General works, treatises, and textbooks
 185.3 Juvenile works
 185.7 Catalogs
- Audiovisual aids in science teaching
- 190 General works, treatises, and textbooks
 192 Films. Motion pictures
 194 Radio
 196 Television
 197 Other (not A-Z)
 199 Handbooks, tables, formulas, etc.

- 209 Science readers in English
 Science readers for the study of foreign languages
 see PA-PM
- (211) Science readers in French
 see PC2127.S4
- (213) Science readers in German
 see PF3127.S3
- (215) Science readers in Italian
 see PC1127.S3
- (219) Science readers in other languages, see PA-PM
- 222 Scientific illustration
 Cf. T11.8 Technical illustration
- Communication in science
 Cf. Q124 Translating services. Translating
 Cf. R118+ Communication in medicine
 Cf. T10.5+ Communication of technical information
- 223 General works
 Information services
 Including information centers
- 223.2 Periodicals, societies, congresses, serial publications
- 223.5 Directories
- 224 General works
- 224.3.A-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 224.5 Electronic information resources
 Including computer network resources, the Internet, digital
 libraries
- Science news. Science and the public
 General works
- 225 By region or country, A-Z
- 225.2.A-Z
- 225.5 Scientific literature
- 226 Scientific language
 Cf. T11+ Scientific writing
- 227 Science secretaries. Scientific correspondence
- 295 System theory
 Cf. T57.6+ Operations research. Systems analysis
 Cf. TA168 Systems engineering
- Cybernetics
 Cf. QA75+ Computer science
 Cf. QA267+ Machine theory
 Cf. QA402.3+ Control theory (Mathematics)
 Cf. QP351+ Nervous system and the senses
 Cf. TJ212+ Control engineering
 Cf. TK7885+ Computer engineering
- 300 Periodicals, societies, congresses, serial publications
- 303 Collected works (nonserial)
- 304 Dictionaries and encyclopedias

Cybernetics -- Continued

- 305 History
- 310 General works, treatises, and textbooks
- 315 Popular works
- 315.5 Addresses, essays, lectures
- 316 Study and teaching. Research
- Bionics
- 317 Periodicals, societies, congresses, serial publications
- 317.5 Collected works (nonserial)
- 320 General works, treatises, and textbooks
- 320.5 Juvenile works
- 321 Addresses, essays, lectures
- Self-organizing systems. Conscious automata
- 325 General works
- Machine learning
- 325.5 General works
- 325.6 Reinforcement learning
- 325.7 Computational learning theory
- 325.75 Supervised learning
- 325.78 Back propagation
- 327 Perceptron theory
 - Cf. TK7882.P3 Pattern recognition systems
- Artificial intelligence
- 334 Periodicals, societies, congresses, serial publications
- 334.2 Dictionaries and encyclopedias
- 334.5 Collected works (nonserial)
- 335 General works, treatises, and textbooks
- 335.4 Juvenile works
- 335.5 Addresses, essays, lectures
- 335.7 Study and teaching. Research
- 336 Data processing
- Distributed artificial intelligence
- 337 General works
- 337.3 Swarm intelligence
- 337.5 Pattern recognition systems
- 338 Truth maintenance systems
- 338.8 Case-based reasoning
- 338.85 Commonsense reasoning
- 339 Default reasoning
- 339.19 Model-based reasoning
- 339.2 Nonmonotonic reasoning
- 339.25 Qualitative reasoning
- 340 Constraints
- 341 Turing test
- 342 Computational intelligence

Cybernetics -- Continued

Information theory

Cf. P87+ Communication

Cf. QA268 Coding theory (Mathematics)

Cf. TK5101+ Telecommunication (General)

Cf. ZA3038+ Information resources

- 350 Periodicals, societies, congresses, serial publications
- 352 Dictionaries and encyclopedias
- 355 History
- 360 General works, treatises, and textbooks
- 365 Popular works
- 367 Addresses, essays, lectures
- 370 Measurements. Tables, calculations, etc.
- 375 Uncertainty theory
- 380 Noise
- 385 Rate distortion theory
- 386 Statistical methods
- Knowledge representation
- 387 General works
- 387.2 Conceptual structures
- 387.3 Description logics
- 387.4 Ontologies
- Cf. Q175.32.O58 Ontology in the philosophy of science
- 387.5 Semantic networks
- 390 Frames
- (500-510) Operations research
- see T57.6+

Mathematics

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Dictionaries and encyclopedias
- 7 Addresses, essays, lectures
- Philosophy
 - Cf. QA9.615 Recursive functions. Recursive arithmetic
 - Cf. QA248+ Foundations of arithmetic. Set theory
 - Cf. QA267+ Machine theory
 - Cf. QA681 Foundations of geometry
- 8 Periodicals, societies, congresses, serial publications
- 8.4 General works, treatises, and textbooks
- 8.6 Addresses, essays, lectures
- 8.7 Study and teaching. Research
- Mathematical logic
 - 9.A1 Periodicals, societies, congresses, serial publications
 - 9.A5-Z General works, treatises, and textbooks
 - 9.2 Addresses, essays, lectures
 - Study and teaching. Research see QA8.7
 - Classical logical systems
 - Including reverse mathematics
 - 9.25 General works
 - 9.3 Propositional calculus
 - 9.35 Predicate calculus
 - 9.37 Infinitary languages
 - Nonclassical formal systems
 - 9.4 General works
 - 9.45 Many-valued logic
 - 9.46 Modal logic
 - Cf. BC199.M6 Logic
 - 9.47 Intuitionistic mathematics
 - 9.5 Combinatory logic and lambda calculus
 - 9.54 Proof systems
 - Constructive mathematics
 - 9.56 General works
 - 9.58 Algorithms
 - 9.59 Computable functions. Computability theory
 - Recursion theory
 - Cf. QA267+ Machine theory
 - 9.6 General works
 - 9.615 Recursive functions. Recursive arithmetic
 - 9.62 Hierarchies
 - 9.63 Unsolvability
 - 9.64 Fuzzy logic
 - Methodology of deductive systems
 - 9.65 Decidability. Gödel's theorem. Gödel numbers
 - 9.67 Completeness

Philosophy

Mathematical logic -- Continued

- 9.7 Model theory
- 9.8 Metamathematics
- 9.9 Matrix logic
- Algebraic logic
- 10 General works
- 10.3 Boolean algebra
 - Cf. QA268.5 Switching theory
- 10.35 Quantum logic
- 10.4 Information theory in mathematics
- 10.5 Mathematics as a profession. Vocational guidance
- 10.7 Social aspects
- 10.8 War and mathematics
- Study and teaching. Research
 - For computer-assisted instruction in mathematics see QA20.C65
 - For use of electronic computers in mathematics see QA76.95
 - Cf. QA135+ Elementary mathematics
- 11.A1 Periodicals, societies, congresses, serial publications
- General works, treatises, and textbooks
 - 11.A2-Z To 2000
 - 11.2 2001-
 - 11.5 Computer network resources
 - Including the Internet
 - 12 Addresses, essays, lectures
 - By region or country
 - 13 United States
 - General works
 - 13.5.A-Z By region or state, A-Z
 - Subarrange each state by Table Q7
 - 14.A-Z Other regions or countries, A-Z
 - Subarrange each country by Table Q7
 - Special teaching methods and aids
 - 16 General works
 - Audiovisual aids
 - 18 General works, treatises, and textbooks
 - 19.A-Z Special types, A-Z
 - 19.A78 Art
 - 19.B55 Blocks (Toys)
 - 19.B8 Bulletin boards
 - 19.C45 Charts, diagrams, etc.
 - 19.C8 Cuisenaire rods
 - 19.L58 Literature
 - 19.M34 Manipulatives
 - 19.M6 Motion pictures

- Study and teaching. Research
 - Special teaching methods and aids
 - Audiovisual aids
 - Special types, A-Z -- Continued
 - 19.M87 Music
 - 19.O9 Overhead projectors
 - 19.P34 Paper work
 - Including folding, cutting, etc.
 - 19.P53 Picture books
 - 19.T4 Television
 - 20.A-Z Other methods, A-Z
 - Authorship see QA20.M38
 - 20.C34 Calculators
 - 20.C65 Computer-assisted instruction
 - Including computer-based experiments
 - 20.E43 Electronic spreadsheets
 - 20.F67 Forums (Discussion and debate)
 - 20.G35 Games
 - 20.G47 Gesture
 - 20.G76 Group guidance
 - 20.H54 Hieroglyphics
 - 20.I53 Individualized instruction
 - Intervention, Response to see QA20.R47
 - 20.M33 Magic tricks
 - 20.M38 Mathematical writing. Authorship
 - 20.M63 Mobile communication systems
 - 20.P49 Physical education
 - 20.P67 Portfolios
 - 20.P7 Programmed instruction
 - For programmed texts, see QA36.5+ QA101+
 - 20.P73 Project method
 - 20.R43 Reading comprehension
 - 20.R47 Response to intervention
 - 20.T43 Teaching teams
 - 20.U55 Unit method of teaching
 - 20.W46 Whole brain learning
 - 20.3 Awards, prizes, etc. Competitions
 - History
 - 21 General
 - 22 Ancient
 - 23 Medieval
 - Modern
 - General see QA21
 - 24 16th-18th centuries
 - 26 19th-20th centuries
 - 27.A-Z By region or country, A-Z

- 27.5 Women in mathematics. Women mathematicians
For biography see QA28+
- Biography
- 28 Collective
- 29.A-Z Individual, A-Z
e.g.
- 29.G3 Gauss
- 29.J2 Jacobi
- 29.N2 Napier
- 30 Directories
- Early works through 1800
- 30.3 Egyptian
- 31 Greek
Including translations and commentaries
For Euclid's Elements for use in schools see QA451
- 32 Medieval
- 33 1501-1700
- 35 1701-1800
- General works
- 36 Comprehensive treatises
- Textbooks
- 36.5 Series of textbooks
- Advanced
- 37 1801-1969
- 37.2 1970-2000
- 37.3 2001-
Intermediate (without calculus)
- 39 1801-1969
- 39.2 1970-2000
- 39.3 2001-
Elementary see QA101+
- 40 Handbooks, manuals, etc.
Popular works see QA93
- 40.5 Juvenile works
- 41 Formulas, notation, abbreviations
- 41.3 Nomenclature, terminology
Communication of mathematical information
- 41.4 General works
- 41.5 Information services
- 41.6 Computer network resources
Including the Internet
- 41.7 Mathematical literature
- 42 Language. Authorship
Cf. QA20.M38 Mathematical writing in mathematics study
and teaching
- 43 Problems, exercises, examinations

Tables

Cf. QA281 Interpolation. Extrapolation

47

General tables

49

Multiplication tables

Including squares and cubes, square roots and cube roots,
reciprocals

51

Factor tables

Logarithms. Tables of mathematical functions

Including trigonometric, hyperbolic, etc.

55

General works

59

Theory and use of logarithms

63

Problem solving

Instruments and machines

Including practical mathematics, graphical and numerical
calculating

71

General works, treatises, and textbooks

73

Slide rules

74

Computation laboratories

Calculating machines

For works on the use of calculators in mathematic
instruction see QA20.C34

75

General works

Electronic computers. Computer science

Including electronic data processing and computer systems

For applications in special fields, see the field, e.g.

QD39.3.E46, Electronic data processing in chemistry

Cf. QA267+ Machine theory

Cf. TK7885+ Computer engineering

75.5

Periodicals, societies, congresses, serial publications

76

General works, treatises, and textbooks

76.15

Dictionaries and encyclopedias

Communication of computer science information

76.16

General works

76.162

Information services

76.165

Language. Authorship

76.167

Philosophy

76.17

History

Biography

76.2.A2

Collective

76.2.A3-Z

Individual, A-Z

76.215

Directories

76.23

Juvenile works

76.24

Addresses, essays, lectures

76.25

Computer science as a profession. Vocational guidance

Study and teaching. Research

76.27

General works

76.28

Problems, exercises, examinations

Instruments and machines

Calculating machines

Electronic computers. Computer science

Study and teaching. Research -- Continued

- 76.3 Certification of electronic data processing personnel
 Class here works on certification in general
 For works on certification on special topic, prefer
 classification with the special topic, e.g.,
 QA76.73.J38 Study guide for Java certification
- 76.33 Computer camps
- Laboratories
- 76.35 General works
- 76.36.A-Z Individual laboratories, A-Z
- 76.38 Hybrid computers
- 76.4 Analog computers
- Digital computers
- 76.5 General works
- 76.52 Juvenile works
- 76.525 Microcomputer workstations
- 76.527 Network computers
 For works on computer network management see
 TK5105.548+
- Computer scheduling
- 76.529 General works
- 76.5295.A-Z Special topics, A-Z
- 76.5295.A34 Affinity scheduling
- 76.5295.P37 Parallel scheduling
- 76.53 Time-sharing data processing
- Real-time data processing
- 76.54 General works
- 76.545 Transaction systems
- Online data processing
 Including general online information services and general
 videotex systems
- 76.55 General works
- 76.57.A-Z Special systems, A-Z
- 76.57.A43 America Online
- 76.57.A77 AT&T WorldNet
- 76.57.C65 CompuServe
- 76.57.D44 DELPHI
- 76.57.E88 eWorld (Online service)
- 76.57.G45 GENie (Videotex system)
- 76.57.G48 GNN
- 76.57.M52 Microsoft Network
- 76.57.M55 Minitel
- 76.57.P75 Prodigy (Online service)
- 76.57.P77 ProfNet

Instruments and machines

Calculating machines

Electronic computers. Computer science

Digital computers

Online data processing

Special systems, A-Z -- Continued

76.57.S68

SOURCE (Videotex system)

76.57.T44

TÉLÉTEL (Videotex system)

76.57.U43

UMI Online (Videotex system)

76.575

Multimedia systems

Cf. QA76.76.I59 Interactive multimedia

76.58

Parallel processing. Parallel computers

76.585

Cloud computing

76.59

Mobile computing

76.5913

Semantic computing

76.5915

Ubiquitous computing

76.592

Wearable computers

Programming

For computer programs and other software see
QA76.75+

76.6

General works

76.612

Constraint programming

76.615

Declarative programming

76.618

Evolutionary programming

76.62

Functional programming

Including functional programming languages

76.623

Genetic programming

76.624

Generative programming

76.6245

Generic programming

76.625

Internet programming. Intranet programming

76.63

Logic programming

76.635

Microprogramming

76.64

Object-oriented programming and programs

Including OPEN method

76.642

Parallel programming

76.65

Visual programming

76.66

Systems programming

Programming languages

76.7

General works

76.73.A-Z

Individual languages, A-Z

Some entries in the following list appear to be out of alphabetical order because filing rules for initialisms and acronyms changed in 1981. This list is incomplete. Beginning in 2013 entries are printed for new programming languages. Generally create Cutters for new entries after .x25 using current filing rules.

Instruments and machines

Calculating machines

Electronic computers. Computer science

Digital computers

Programming languages

Individual languages, A-Z -- Continued

76.73.A12

ABAP

76.73.A24

ALGOL

76.73.A27

APL

76.73.A35

Ada

76.73.A67

AppleScript

76.73.A8

Assembly languages. Assemblers

Class here general works on Assembly languages
and assemblers, including works on assembling

For works on a specific assembly language, see the
language, e.g., for X86 assembly language see
QA76.73.X16

76.73.A84

AutoLISP

76.73.A95

AWK

76.73.B155

B

76.73.B3

BASIC

76.73.B78

BSV 753

76.73.C15

C

76.73.C153

C++

76.73.C154

C#

76.73.C25

COBOL

76.73.C56

Clipper

76.73.C58

CoffeeScript

76.73.C75

CSP

76.73.C87

Curl

76.73.D138

D

76.73.D14

D*

76.73.D23

Dart

76.73.D25

DRL

76.73.D95

Dylan

76.73.E27

EasyLanguage

76.73.E38

ELAN

76.73.E75

ERLANG

76.73.F16

F

76.73.F23

FOCUS

76.73.F25

FORTRAN

76.73.F74

FRED

76.73.G25

GW-BASIC

76.73.G63

Go

76.73.H37

Haskell

76.73.H6

HP-GL/2

76.73.H96

HyperTalk

Instruments and machines

Calculating machines

Electronic computers. Computer science

Digital computers

Programming languages

Individual languages, A-Z -- Continued

- 76.73.I22
 76.73.J2
 76.73.J38
 76.73.J39
 76.73.J63
 76.73.J7
 76.73.K63
 76.73.K67
 76.73.L23
 76.73.L62
 76.73.L63
 76.73.L66
 76.73.L82
 76.73.M15
 76.73.M29
 76.73.M35
 76.73.M39
 76.73.M53
 76.73.M6
 76.73.N39
 76.73.O115
 76.73.O213
 76.73.P224
 76.73.P25
 76.73.P32
 76.73.P67
 76.73.P75
 76.73.P76
 76.73.P98
 76.73.R25
 76.73.R3
 76.73.R33
 76.73.R83
 76.73.S15
- INFORMIX-4GL
 J#
 Java
 JavaScript
 Job Control Language
 JR
 Kodu
 KornShell
 LISP
 LogiQL
 LOGO
 LotusScript
 Lua
 M
 Mathematica
 Maude
 MDX
 Microsoft Visual Basic
 Including Microsoft Visual Basic for applications
 ML
 MySQL see QA76.73.S67
 NCL
 Objective-C
 OpenCL
 PHP
 PL/1
 packetC
 PostScript
 Class here works on designing or writing compilers
 for PostScript
 For works on using PostScript to control the page
 appearance of paper documents, see Z52.5 or
 Z250.8.P68
 Processing
 Prolog
 Python
 RPG
 R (Computer program language)
 Racket
 Ruby
 S

Instruments and machines

Calculating machines

Electronic computers. Computer science

Digital computers

Programming languages

Individual languages, A-Z -- Continued

76.73.S27	SAS (Computer program language)
76.73.S28	Scala
76.73.S34	Scheme
76.73.S345	Scratch
76.73.S35	SDL
76.73.S59	SPARK
76.73.S62	SPARQL
76.73.S67	SQL. MySQL
76.73.S95	Swift
76.73.T44	Tcl
76.73.T97	TypeScript
76.73.U63	UPC
76.73.V27	VBScript
76.73.W65	Wolfram language
76.73.X16	X86 assembly language
76.73.X57	XPath
76.73.X58	XSLT
76.73.Z2	Z

Computer software

For individual programs, see the type of program, e.g.

QA76.76.T49 Text editors

For application programs, see the field, e.g. HF5548.4.L67

Lotus 1-2-3

76.75	Periodicals. Societies. Serials
76.751	Congresses
76.752	Dictionaries
76.753	Catalogs
76.754	General works
76.755	Handbooks, tables, etc.
76.756	Addresses, essays, lectures
76.758	Software engineering
	Including software reengineering
76.76.A-Z	Special topics, A-Z
76.76.A54	AngularJS
76.76.A63	Application program interfaces
76.76.A65	Application software
	Including composite applications
(76.76.A87)	Assemblers
	See QA76.73.A8, Assembly languages. Assemblers
	see QA76.73.A8
76.76.A98	Automatic differentiations

Instruments and machines

Calculating machines

Electronic computers. Computer science

Computer software

Special topics, A-Z -- Continued

76.76.C47

Certification of software

76.76.C54

Children's software

76.76.C64

Compatibility of software

76.76.C65

Compilers

Including compilers of individual computer
programming languages

76.76.C66

Component software

Composite applications see QA76.76.A65

76.76.C672

Computer games

Class here works on programming computer games
For general works on computer games as well as
works on specific computer games and actual
software see GV1469.15+

76.76.C68

Computer viruses

76.76.C69

Configuration management

76.76.C73

Costs

76.76.D47

Development

76.76.D49

Device drivers

Including individual device drivers

76.76.D57

Disassemblers

Including decompilers

76.76.D63

Documentation of software

Ecosystems, Software see QA76.76.S62

76.76.E93

Evaluation of software

76.76.E95

Expert systems

76.76.F34

Failures of software

File conversion software see QA76.9.F48

Frameworks see QA76.76.S63

76.76.F75

Free computer software

Cf. QA76.76.O62 Open source software

76.76.G46

Generators

76.76.H85

Human factors

(76.76.H92)

Hypermedia systems

see QA76.76.I59

76.76.H94

Hypertext systems

Including hypertext document markup languages, e. g.
HTML (Document markup language), XML
(Document markup language), etc.

76.76.I55

Install programs

76.76.I57

Integrated software

76.76.I58

Intelligent agents

Instruments and machines

Calculating machines

Electronic computers. Computer science

Computer software

Special topics, A-Z -- Continued

- 76.76.I59 Interactive media. Hypermedia
Cf. QA76.575 Multimedia systems
- 76.76.M52 Measurement, Software see QA76.76.S65
- 76.76.M54 Microsoft .NET Framework
- Middleware
Including object monitors
- Object-oriented programs see QA76.64
- 76.76.O62 Open source software
(76.76.O63) Operating systems
see QA76.77+
- 76.76.P37 Patterns, Software
- 76.76.P74 Productivity
- 76.76.P76 Protection of software
- 76.76.Q35 Quality control
- 76.76.R42 Refactoring of software
- 76.76.R44 Reliability
- 76.76.R47 Reusability
- 76.76.S27 SAP NetWeaver Gateway
- 76.76.S37 Screen savers
- 76.76.S375 Self-adaptive software
- 76.76.S46 Shareware
- 76.76.S62 Software ecosystems
- 76.76.S63 Software failures see QA76.76.F34
Software frameworks
For special frameworks, see the framework, e.g.,
Microsoft .NET Framework QA76.76.M52
- 76.76.S64 Software maintenance
Including Year 2000 date conversion
- 76.76.S65 Software measurement
- 76.76.S66 Software support
- 76.76.S69 Spyware
- 76.76.S73 Standards for software
- 76.76.S95 Systems software
- 76.76.T45 Teleprocessing monitors
- 76.76.T47 Termination
- 76.76.T48 Testing of software
- 76.76.T49 Text editors
For works on how to use text editors to produce paper
documents, see Z52, Z253.3+, or Z253.53+
- 76.76.T55 Threads
- 76.76.T83 Translators
- 76.76.U84 Utilities

Instruments and machines

Calculating machines

Electronic computers. Computer science

Computer software

Special topics, A-Z -- Continued

76.76.V47

Verification and validation of software

Viruses see QA76.76.C68

76.76.W56

Windows

Class here works on window functionality

For works on individual Microsoft Windows
operating systems see QA76.774.A+

Year 2000 date conversion see QA76.76.S64

76.765

Firm-ware

Operating systems

76.77

General works

76.774.A-Z

Individual operating systems. By system, A-Z

76.774.A53

Android

76.774.B47

Berkeley BSD

BSD, Free see QA76.774.F74

76.774.D67

DOS

76.774.F74

FreeBSD

76.774.I67

iOS

76.774.L46

Linux

76.774.M33

Mac OS

Macintosh OS see QA76.774.M33

76.774.M43

Microsoft Windows 7

76.774.M434

Microsoft Windows 8

76.774.M435

Microsoft Windows 10

76.774.M48

Microsoft Windows Me

76.774.M53

Microsoft Windows NT

76.774.M55

Microsoft Windows server

76.774.M56

Microsoft Windows Vista

76.774.M58

Microsoft Windows XP

76.774.S65

Solaris

76.774.U28

Ubuntu

76.774.U64

UNIX

Vista see QA76.774.M56

Windows 7 see QA76.774.M43

Windows 8 see QA76.774.M434

Windows 10 see QA76.774.M435

Windows ME see QA76.774.M48

Windows NT see QA76.774.M53

Windows server see QA76.774.M55

Windows Vista see QA76.774.M56

Windows XP see QA76.774.M58

76.8.A-Z

Special computers, computer systems, and
microprocessors. By name, A-Z

Instruments and machines

Calculating machines

Electronic computers. Computer science

Special computers, computer systems, and

microprocessors. By name, A-Z -- Continued

- 76.8.A54 AN/FSQ-7
- 76.8.B38 BeagleBone Black
- 76.8.C46 Chromebook
- 76.8.E53 ENIAC
- 76.8.I12 IBM 360
- 76.8.I63 iPad
- 76.8.I64 iPhone
- 76.8.K56 Kindle Fire
- 76.8.M3 Macintosh
Including MacBook
- 76.8.R15 Raspberry Pi
- 76.8.S25 Samsung
Including Samsung Galaxy series smartphones
- 76.8.U6 Univac
- 76.8.U7 Ural
- 76.84 Fourth generation computers
- 76.85 Fifth generation computers
- 76.87 Neural computers. Neural networks
- 76.875 Artificial immune systems. Immunocomputers
- 76.88 Supercomputers. High performance computing
Including heterogeneous computing
- 76.884 Biocomputers
- 76.885 Petaflops computers
- 76.887 Molecular computers. DNA computers
- 76.889 Quantum computers
- 76.89 Pen-based computers
- 76.893 Tablet computers
- 76.9.A-Z Other topics, A-Z
- 76.9.A23 Abstract data types
- 76.9.A25 Access control. Computer security
Cf. HF5548.37 Security measures in electronic data
processing departments
Cf. TK5105.8855 Internet access control
- 76.9.A3 Adaptive computing
- 76.9.A43 Algorithms
- 76.9.A48 Ambient intelligence
- 76.9.A73 Architecture, Computer
- 76.9.A93 Auditing
Class here works on the auditing of electronic data
processing systems and activities
For works dealing with the auditing of electronic
data processing departments see HF5548.35

Instruments and machines

Calculating machines

Electronic computers. Computer science

Other topics, A-Z -- Continued

- 76.9.A94 Augmented reality
- 76.9.A955 Automatic hypothesis formation
- 76.9.A96 Automatic theorem proving
- 76.9.A97 Autonomic computing
- 76.9.B22 B method
- 76.9.B32 Backup processing
- 76.9.B38 Batch processing
- 76.9.B45 Big data
- 76.9.B84 Bulletin boards
- Camps, Computer see QA76.33
- Children and computers see QA76.9.C659
- Civilization and computers see QA76.9.C66
- 76.9.C55 Client/server computing
- 76.9.C58 Computational grids
- Computer algorithms see QA76.9.A43
- Computer architecture see QA76.9.A73
- 76.9.C62 Computer arithmetic
- Computer camps see QA76.33
- 76.9.C63 Computer capacity
- 76.9.C64 Computer literacy
- Computer logic see QA76.9.L63
- Computer mathematics see QA76.9.M35
- 76.9.C643 Computer organization
- 76.9.C65 Computer simulation
 - Cf. T57.62+ Industrial engineering
 - Cf. TA343 Engineering mathematics
- Computer system failures see QA76.9.F34
- 76.9.C659 Computers and children
 - Cf. LC40.5.C66 Computer-assisted home schooling
- 76.9.C66 Computers and civilization. Social aspects of computers
- Computers and family see QA76.9.F35
- Computers and older people see QA76.9.O43
- Computers and women see QA76.9.W65
- 76.9.C67 Constraint databases
- Conversion of computer files see QA76.9.F48
- 76.9.C68 Conversion of computer systems
- 76.9.C72 Cookies (Computer science)
- Crowdsourcing see QA76.9.H84
- 76.9.C92 Cyberinfrastructure
- Data analysis, Quantitative see QA76.9.Q36
- 76.9.D26 Database design

Instruments and machines

Calculating machines

Electronic computers. Computer science

Other topics, A-Z -- Continued

- 76.9.D3 Database management
Cf. QA76.9.D37 Data warehousing
- 76.9.D314 Database security
- 76.9.D32 Databases
Including online databases and non-relational databases
Cf. QA76.9.W43 Web databases
- 76.9.D33 Data compression
- 76.9.D337 Data entry
- 76.9.D338 Data integration
- 76.9.D3385 Data logging. Event logging
Class here general works on software generated lists of events
For works on data logging equipment and logs used in a specific field, see the field, e.g., QH324.9.B5
Biotelemetry
For data loggers see TK7895.D28
- 76.9.D34 Data marts
- 76.9.D343 Data mining
Including OLAP technology
- 76.9.D345 Data preparation
- 76.9.D348 Data recovery
- 76.9.D35 Data structures
Cf. QA76.9.C72 Cookies (Computer science)
- 76.9.D37 Data warehousing
- 76.9.D43 Debugging in computer science
Including structured walkthrough
- 76.9.D5 Distributed processing
- 76.9.D6 Documentation
Cf. QA76.76.D63 Software documentation
- 76.9.E25 Economic aspects
- 76.9.E53 End-user computing
- 76.9.E57 Entertainment computing
- 76.9.E58 Environmental aspects
- 76.9.E77 Error messages
- Ethical aspects see QA76.9.M65
- 76.9.E94 Evaluation of computer performance
- 76.9.E95 Evaluation of data processing activities
- Event logging see QA76.9.D3385
- Expert systems see QA76.76.E95
- 76.9.F34 Failures of computer systems
Cf. QA76.76.F34 Software failures
- 76.9.F35 Computers and family
- 76.9.F38 Fault-tolerant computing

Instruments and machines

Calculating machines

Electronic computers. Computer science

Other topics, A-Z -- Continued

- 76.9.F48 File conversion
Including individual file conversion software, e.g. Adobe Acrobat
- 76.9.F5 File organization
- 76.9.F53 File processing
- 76.9.F67 Formal methods
- 76.9.G37 Garbage collection
- 76.9.G68 Government policy
- Granular computing see QA76.9.S63
- Graphical user interfaces see QA76.9.U83
- Grids, Computational see QA76.9.C58
- 76.9.H35 Hard disk management
- 76.9.H36 Hashing
- 76.9.H84 Human computation. Crowdsourcing
Cf. Q337+ Distributed artificial intelligence
- 76.9.H85 Human-computer interaction
- 76.9.I52 Information visualization
- 76.9.I55 Input design
- 76.9.I58 Interactive computer systems
- 76.9.K48 Keyboarding
Class here works on keyboarding computer formats, such as punched cards or punched tape
For works on keyboarding eye-readable reports and displays see Z49+
- 76.9.L38 Lattice theory
- 76.9.L63 Logic, Computer
- 76.9.M3 Management
- 76.9.M35 Mathematics, Computer
- 76.9.M45 Memory management
- 76.9.M65 Moral and ethical aspects
- 76.9.M68 Multilingual computing
- 76.9.N37 Natural computation
- 76.9.N38 Natural language processing
Cf. P98+ Linguistics
- 76.9.N47 Netcentric computing
- Non-relational databases see QA76.9.D32
- 76.9.O35 Object-oriented methods
Cf. QA76.64 Object-oriented programming
- OLAP technology see QA76.9.D343
- 76.9.O43 Computers and older people
- 76.9.O59 Olympiads
- Online databases see QA76.9.D32
- Organization, Computer see QA76.9.C643

Instruments and machines

Calculating machines

Electronic computers. Computer science

Other topics, A-Z -- Continued

- 76.9.P75 Psychological aspects
- 76.9.Q36 Quantitative research. Quantitative data analysis
- 76.9.Q4 Question-answering systems
- Religious aspects see BL255.5
- 76.9.R45 Remote job entry
- 76.9.R48 Reversible computing
- Security, Computer see QA76.9.A25
- Security, Data base see QA76.9.D314
- 76.9.S54 Self-stabilization
- Social aspects of computers see QA76.9.C66
- 76.9.S63 Soft computing
- Including granular computing
- Software maintenance see QA76.76.S64
- 76.9.S8 Standards
- Cf. QA76.76.S73 Standards for software
- 76.9.S84 Structured techniques
- Structured walkthrough see QA76.9.D43
- 76.9.S88 System design
- System failures see QA76.9.F34
- 76.9.S9 Systems migration
- 76.9.T43 Technical support
- Cf. QA76.76.S66 Software support
- 76.9.T48 Text processing
- 76.9.T7 Transborder data flow
- 76.9.U83 User interfaces
- Including graphical user interfaces
- 76.9.V5 Virtual computer systems
- Visualization, Information see QA76.9.I52
- 76.9.W43 Web databases
- 76.9.W65 Computers and women
- 76.95 Use of electronic computers in mathematics
- For works on the use of calculators in mathematics instruction see QA20.C34
- For works on computer-assisted instruction in mathematics see QA20.C65
- Miscellaneous geometrical instruments
- Cf. T375+ Drawing instruments
- 77 General works
- 81 Planimeters
- Mechanical aids in higher analysis
- 85 General works
- 90 Graphic methods (General). Nomography
- 93 Popular works

- 95 **Mathematical recreations**
For Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc.
see QA491
- 99 **Miscellany and curiosa**
Elementary mathematics. Arithmetic
Including basic mathematical concepts for the elementary grades
Cf. QA248+ Foundations of arithmetic
Textbooks
- 101 Through 1845
- 103 1846-1900
- 106 1901-1960
- 107 1961-2000
- 107.2 2001-
- 109 **Special aspects of the subject as a whole**
- 111 **Rapid calculators and short cuts**
- 113 **Counting**
Class here works dealing with counting, including counting
books and other forms of materials
For works dealing with numeration, the concept of
numbers, and numeration systems see QA141+
- 115 **Elementary operations**
e.g. addition, subtraction, multiplication, division
- 117 **Fractions**
Including proportion, ratio
- 119 **Roots**
Including square root, cube root
Study and teaching
Cf. LC4621 Education of children with mental disabilities
General works, treatises, and textbooks
- 135 Through 1960
- 135.5 1961-2000
- 135.6 2001-
- 137 **Teaching fractions**
- 139 **Problems, exercises, examinations**
Numeration, number concept, numeration systems
Cf. QA241+ Theory of numbers
Cf. QA297+ Numerical analysis
- 141 **General works, treatises, and textbooks**
- 141.15 **Number concept (Elementary)**
Cf. BF456.N7 Numbers. Mathematics (Psychology)
- 141.2 **History**
Cf. GN476.15 Primitive numeration
Cf. P211+ History of writing
- 141.3 **Juvenile works**

Elementary mathematics. Arithmetic

Numeration, number concept, numeration systems --

Continued

141.35

Decimal system

Class here expository and historical works on the decimal system

For tables, arithmetic, and other works with values expressed mainly in the decimal system, see the special class numbers that are provided for particular fields, e. g.

QA101 Arithmetic. For tables, arithmetic, etc., for other special systems, see QA141.4+

141.4

Binary system

Duodecimal system

141.5.A1

Periodicals, societies, congresses, serial publications

141.5.A2-Z

General works, treatises, and textbooks

141.6

Octal system

141.8.A-Z

Other special systems, A-Z

141.8.Q5

Quinary system

141.8.S4

Sexadecimal system

141.8.S5

Sexagesimal system

141.8.T45

Ternary system

(145)

Algebra and arithmetic

see QA101+

Algebra

150

Periodicals, societies, congresses, serial publications

151

History

Textbooks

Elementary

152

Through 1970

152.2

1971-2000

152.3

2001-

Advanced

154

Through 1970

154.2

1971-2000

154.3

2001-

154.8

Early works to 1800

155

General works and treatises

Including higher algebra

155.15

Juvenile works

155.2

Addresses, essays, lectures

155.5

Special aspects of the subject as a whole

155.7.A-Z

Special topics, A-Z

155.7.E4

Electronic data processing

157

Problems, exercises, examinations

Study and teaching. Research

159

General works

159.2

Outlines, syllabi, etc.

Algebra -- Continued

- 161.A-Z Miscellaneous elementary topics, A-Z
- 161.B48 Binomial coefficients
- 161.B5 Binomial theorem
- 161.E95 Exponents
- 161.F3 Factors
- Logarithms see QA59
- 161.P59 Polynomials
- 162 Abstract algebra
 - Cf. QA10.3 Boolean algebra
- Combinatorics. Combinatorial analysis
- 164 General works
- 164.5 Problems, exercises, etc.
- 164.8 Enumeration problems. Generating functions
 - Cf. QA353.G44 Special functions
- 164.9 Identities
- 165 Permutations. Combinations. Partitions
 - Including magic squares and magic cubes
- Graph theory
 - Cf. QA612.18 Map-coloring problem
- 166 General works
- 166.14 Bipartite graphs
- 166.145 Cayley graphs
- 166.15 Directed graphs
- 166.16 Perfect graphs
- 166.165 Quantum graphs
- 166.17 Random graphs
- 166.175 Fuzzy graphs
- 166.18 Hamiltonian graph theory
- 166.185 Intersection graph theory
- 166.19 Eulerian graph theory
- 166.195 Topological graph theory
- 166.197 Graph labelings
 - Including magic labelings
- 166.2 Trees
- 166.22 Paths and cycles
- 166.23 Hypergraphs
- 166.24 Reconstruction
- 166.242 Representations of graphs
- 166.243 Graph connectivity
- 166.245 Graph algorithms
- 166.247 Graph coloring
- Design and configurations
- 166.25 General works
- 166.3 Block designs
- 166.4 Hadamard matrices
- 166.6 Matroids. Greedoids

Algebra

- Combinatorics. Combinatorial analysis
 - Design and configurations -- Continued
 - 166.7 Packing and covering
 - 166.75 Polyominoes
 - 166.8 Tessellation and tiling
 - Combinatorial geometry
 - 167 General works
 - 167.2 Finite geometries
- 169 Homological algebra
 - Including functors, categories
- (171) Group theory
 - see QA174+
- Ordered sets
 - 171.48 General works
 - 171.485 Partially ordered sets
 - 171.49 Semilattices
 - 171.5 Lattice theory
 - Cf. QD921+ Crystal lattices
- Ordered algebraic structures
 - 172 General works
 - 172.4 Ordered groups
- Group theory
 - Cf. QA172.4 Ordered groups
 - Cf. QA385+ Continuous groups
 - Cf. QA387 Topological groups. Lie groups
 - Cf. QA613.7 Topological transformation groups
 - Cf. QA614.97 Pseudogroups and deformations of structures
 - Cf. QC174.17.G7 Quantum theory
 - Cf. QD455.3.G75 Physical chemistry
- 174 Periodicals, societies, congresses, serial publications
- 174.2 General works
- 174.5 Juvenile works
- Study and teaching. Research
 - 174.6 General works
 - 174.62.A-Z Special topics, A-Z
 - 174.62.C65 Computer-assisted instruction
 - 174.7.A-Z Special topics, A-Z
 - 174.7.D36 Data processing
 - 174.7.S96 Symmetry
- 175 Permutation groups
- 176 Representations of groups
- 177 Finite groups
- 177.4 Formal groups
- 178 Infinite groups
- 179 Linear algebraic groups

Algebra

Group theory -- Continued

- 180 Abelian groups
- 181 Groupoids
- 181.5 Quasigroups
- 182 Semigroups
- 182.5 Combinatorial group theory
- 183 Geometric group theory
- Linear and multilinear algebra. Matrices
 - Cf. QA243 Bilinear forms
 - General works, treatises, and textbooks
 - To 2000
 - 2001-
 - 184 To 2000
 - 184.2 2001-
 - 184.5 Problems, exercises, examinations
 - 185.A-Z Special topics, A-Z
 - 185.C65 Computer-assisted instruction
 - 185.D37 Data processing
 - 186 Vector spaces
 - 187 Linear dependence
 - Matrices
 - 188 General works
 - 191 Determinants
 - 192 Elimination
 - 193 Eigenvalues and eigenvectors
 - 195 Proximity matrices
 - 196 Quaternions
 - 196.5 Random matrices
 - 196.7 Sylvester equations
 - 197 Triangularization
 - 199 Clifford algebras
 - 199.5 Multilinear algebra. Tensor products
 - Vector and tensor algebra
 - Cf. QA433 Vector and tensor analysis
 - 200 General works
 - 201 Invariants
 - 205 Exterior algebra. Ausdehnungslehre
- Theory of equations
 - 211 General works, treatises, and textbooks
 - 212 Roots. Symmetric functions
 - Cf. QA119 Elementary mathematics
 - 214 General resolution of equations
 - Including simultaneous equations
 - 215 Cubic, quadratic, biquadratic, and other particular equations
 - 218 Numerical solutions
 - 219 Graphic algebra

Algebra -- Continued

Approximation theory

Cf. QA297+ Numerical analysis

221

General works

223

Radial basis functions

224

Spline theory

Number theory

241

General works, treatises, and textbooks

241.5

Geometry of numbers

241.7

Probabilistic number theory

242

Divisibility. Linear congruences. Factorization. Quadratic residues. Diophantine analysis

Arithmetical algebraic geometry

242.5

General works

242.6

Arakelov theory

243

Forms

Including quadratic, bilinear forms

244

Higher congruences, residues. Fermat's theorem

245

Cyclotomy. Application of functions to arithmetic

246

Distribution of primes. Special numerical functions, etc.

246.5

Sequences of integers

Exponential and character sums

246.7

General works

246.8.A-Z

Special sums, A-Z

246.8.G38

Gaussian

246.8.K58

Kloosterman

246.8.T75

Trigonometric

Algebraic fields. Algebraic numbers

247

General works

Modular fields. Finite fields

247.3

General works

247.35

Modular arithmetic

247.4

Differential and difference algebra

247.45

Division algebras

247.5

Transcendental numbers. Irrational numbers

Foundations of arithmetic. Set theory. Transfinite numbers

248

General works

248.3

Elementary textbooks

248.5

Fuzzy sets

Recursive functions. Recursive arithmetic see QA9.6+

251

Universal algebra

Cf. QA184+ Linear and multilinear algebra

251.3

Commutative rings and algebras

251.35

Group rings

251.38

Local rings

251.4

Noncommutative rings and algebras

251.5

Associative rings and algebras

- Algebra -- Continued
 Nonassociative rings and algebras
- 252 General works
 252.3 Lie algebras. Lie superalgebras
 Cf. QA387 Lie groups
- 252.5 Jordan algebras
- 255 Complex numbers
- (263) Matrices
 see QA188+
- Machine theory. Abstract machines. Abstract automata
 Cf. QA9.6+ Recursive functions
 Cf. QA75.5+ Electronic computers
 Cf. QA402.3+ Control theory
- 267 General works, treatises, and textbooks
- 267.3 Formal languages
 Cf. P98+ Language data processing
- 267.5.A-Z Special types of machines, A-Z
- 267.5.C45 Cellular automata
- 267.5.F89 Fuzzy automata
- 267.5.P7 Probabilistic automata
- 267.5.S4 Sequential machines
- 267.5.T45 Temporal automata
- 267.7 Computational complexity. Kolmogorov complexity
- 268 Coding theory
- 268.5 Switching theory
 Cf. QA10.3 Boolean algebra
 Cf. TK7868.S9 Switching circuits
- Game theory
- 269 General works
 Cf. T57.92 Industrial engineering
- 270 Games of strategy
- 271 Games of chance
- 272 Differential games
- 272.4 Cooperative games
- 272.5 Noncooperative games
- Probabilities
 Cf. T57.3+ Industrial engineering
 Cf. TA340 Engineering mathematics
- 273.A1 Periodicals, societies, congresses, serial publications
- 273.A3 Dictionaries and encyclopedias
- 273.A35 Philosophy
- 273.A4 History
- 273.A5-Z General works, treatises, and textbooks
- 273.15 Popular works
- 273.16 Juvenile works
- 273.18 Addresses, essays, lectures
- 273.19.A-Z Special topics, A-Z

Probabilities

- Special topics, A-Z -- Continued
- 273.19.E4 Electronic data processing
- Study and teaching. Research
- 273.2 General works
- 273.25 Problems, exercises, examinations
- 273.26 Computer-assisted instruction
- 273.27 Programmed instruction
- 273.3 Handbooks, tables, formulas, etc.
- 273.4 Axioms and foundations
- 273.43 Probability theory on algebraic and topological structures
- 273.45 Combinatorial probabilities
- 273.5 Geometric probability. Stochastic geometry. Random sets
- 273.6 Distributions. Characteristic functions
- 273.67 Limit theorems
- Stochastic processes
 - Cf. T57.33 Renewal theory
 - Cf. T57.35+ Renewal theory
 - Cf. T57.9 Queuing theory
- 274.A1 Periodicals, societies, congresses, serial publications
- 274.A5-Z General works, treatises, and textbooks
- 274.12 Problems, exercises, etc.
- 274.13 Axioms and foundations
- Stochastic analysis
 - 274.2 General works
 - 274.22 Stochastic integrals
 - 274.223 Stochastic inequalities
 - 274.225 Stochastic sequences
 - 274.23 Stochastic differential equations
 - 274.25 Stochastic partial differential equations
 - 274.27 Stochastic integral equations
 - 274.28 Random operators
 - 274.29 White noise theory
 - 274.3 Stationary processes
 - 274.4 Gaussian processes
 - 274.42 Point processes
 - 274.45 Random fields
 - 274.46 Random measures
 - 274.5 Martingales. Semimartingales
 - 274.6 Learning models
 - Markov processes. Markov chains
 - 274.7 General works
 - 274.73 Random walks
 - 274.75 Diffusion processes. Brownian motion processes
 - Cf. QC183 Constitution and properties of matter and anti-matter
 - 274.755 Jump processes

- Probabilities
 - Stochastic processes
 - Markov processes. Markov chains -- Continued
- 274.76 Branching processes
- 274.8 Queuing theory
- 274.9 Self-similar processes
- 275 Theory of errors. Least squares
- Mathematical statistics
 - Including statistical inference and fundamental concepts of statistics
 - For special applications of statistics, see the field of application, e.g. HD1421+ Agricultural statistics; LB2846 Educational statistics; TA340 Statistical methods in engineering
- 276.A1 Periodicals, societies, congresses, serial publications
- 276.A12 Collected works (nonserial)
- 276.A2-Z General works
- 276.12 Elementary texts
 - Including descriptive statistics
- 276.13 Juvenile works
- 276.14 Dictionaries and encyclopedias
- 276.15 History
- Biography
 - 276.156 Collective
 - 276.157.A-Z Individual, A-Z
- 276.16 Addresses, essays, lectures
- 276.17 Statistics as a profession. Vocational guidance
- Study and teaching. Research
 - 276.18 General works
 - 276.19 Outlines, syllabi
 - 276.2 Problems, exercises, examinations
 - 276.22 Computer-assisted instruction
 - 276.23 Geometrical models
 - 276.25 Handbooks, tables, formulas, etc.
 - Including tables of random numbers
- 276.3 Graphic methods
- Data processing
 - Class here works on the use of data processing and computers in mathematical statistics in general
 - For the application of statistical data processing and statistical analysis programs in special fields see the field, e. g. HF5415.125, Marketing; T57.5, Industrial engineering
- 276.4 General works
- 276.45.A-Z Special programs or languages, A-Z
 - 276.45.M53 Microsoft Excel
 - 276.45.M56 Minitab
 - 276.45.R3 R (Computer program language)
 - 276.45.S27 SAS (Computer program language)

- Mathematical statistics
- Data processing
 - Special programs or languages, A-Z -- Continued
 - 276.45.S28 SCA statistical system
 - 276.45.S83 Statistica
 - 276.5 Fuzzy statistics
 - 276.6 Sampling theory and methods
 - 276.7 Sampling distribution
 - 276.74 Tolerance regions. Confidence intervals
 - 276.8 Estimation theory
 - Including measurement uncertainty
 - 276.9 Minimum message length. Minimum description length
 - Testing of hypotheses
 - 277 General works
 - 277.3 Chi-square test
 - 277.5 Observed confidence levels
 - Multivariate analysis
 - 278 General works
 - 278.2 Regression analysis. Correlation analysis
 - 278.3 Path analysis. Structural equation modeling
 - 278.4 Paired and multiple comparisons
 - 278.5 Factor analysis. Principal components analysis.
 - Correspondence analysis
 - 278.6 Latent structure analysis
 - 278.65 Discriminant analysis
 - 278.7 Order statistics
 - 278.75 Ranking and selection
 - 278.8 Nonparametric methods
 - Analysis of variance and covariance. Analysis of means.
 - Experimental design
 - 279 General works
 - 279.2 Prediction analysis
 - Decision theory
 - 279.4 General works
 - 279.5 Bayesian statistics
 - 279.6 Fuzzy decision making
 - 279.7 Multistage decision procedures. Sequential analysis
 - 280 Time series analysis
 - 281 Interpolation. Extrapolation
 - Cf. QA47+ Mathematical tables
 - Cf. QA221+ Approximation theory
 - Cf. QA273.A1+ Probabilities. Theory of errors. Least squares
 - Cf. QA297+ Numerical analysis
 - 292 Sequences
 - Cf. QA246.5 Sequences of integers

- 295 Series
Including infinite products and other infinite processes
- Numerical analysis
Cf. QA221+ Approximation theory
- 297 General works, treatises, and textbooks
- 297.3 Problems, exercises, etc.
- 297.5 Numerical approximation
For numerical solution to differential equations, including
initial value problems and boundary value problems
see QA370+
Cf. QA71+ Instruments and machines
Cf. QA90 Graphic methods. Nomography
Cf. QA218 Numerical solutions of algebraic equations
Cf. QA275 Least squares
Cf. QA281 Interpolation. Extrapolation
- 297.55 Relaxation methods
- 297.6 Smoothing. Curve fitting
- 297.65 Rounding
- 297.7 Roundoff errors
- 297.75 Interval analysis
- 297.8 Iterative methods
- 298 Numerical simulation. Monte Carlo method
Cf. T57.62+ Industrial engineering
- 299 Numerical differentiation
- Numerical integration
- 299.3 General works
- 299.4.A-Z Special formulas, A-Z
- 299.4.C83 Cubature formulas
- 299.4.G3 Gaussian quadrature formulas
- Analysis
Including calculus, functional analysis, functions, differential
equations
- 299.6 Periodicals, societies, congresses, serial publications
- Foundations
- 299.8 General works
- 299.82 Nonstandard analysis
- 300 General works, treatises, and textbooks
- 300.5 Addresses, essays, lectures
- 301 Problems, exercises, examinations
- 302 Early works through 1800
- Calculus
Cf. QA431 Calculus of differences
- General works, treatises, and textbooks
- 303 Through 2000
- 303.2 2001-
- 303.3 Study and teaching. Research
- 303.5.A-Z Special topics, A-Z

Analysis

Calculus

Special topics, A-Z -- Continued

303.5.C65 Computer-assisted instruction

303.5.D37 Data processing

Differential calculus

304 General works

305 Problems, exercises, examinations

306 Miscellaneous special topics

Integral calculus

308 General works

309 Problems, exercises, examinations

310 Tables of integrals

311 Miscellaneous special topics

Measure and integration

Including Lebesgue integrals

312 General works

312.5 Fuzzy measure theory

313 Ergodic theory

Cf. QA329.2 Linear operators

Cf. QA611.5 Topology

314 Fractional calculus

Calculus of variations

Cf. QA402.3+ Control theory

315 General works

316 Miscellaneous special topics

Functional analysis

319 Periodicals, societies, congresses, serial publications

320 General works

321 Addresses, essays, lectures

321.5 Nonlinear functional analysis

322 Topological linear spaces

322.2 Normed linear spaces. Banach spaces

322.4 Inner product spaces. Hilbert spaces

322.5 Indefinite inner product spaces

323 Function spaces

324 Theory of distributions

325 Measures, integration, derivatives

326 Topological algebras. Banach algebras

Operator theory

329 General works

329.2 Linear operators

Differential operators

329.4 General works

329.42 Partial differential operators

329.5 Narrow operators

329.6 Integral operators

Analysis

Functional analysis

Operator theory -- Continued

329.7 Pseudodifferential operators

Nonlinear operators

329.8 General works

329.9 Fixed point theory

Cf. QA612.24 Fixed points and coincidences

Theory of functions

331 General works, treatises, and advanced textbooks

331.3 Elementary textbooks

331.5 Functions of real variables

331.7 Functions of complex variables

Riemann surfaces

Including multiform, uniform functions

333 General works

335 Fuchsian groups

337 Teichmüller spaces

341 Algebraic functions

342 Logarithmic, circular, and exponential functions

343 Elliptic functions. Elliptic integrals. Modular functions

345 Abelian functions. Theta functions

Including hyperelliptic functions

Special functions

Cf. QA406 Spherical harmonics

Cf. QA408 Bessel functions

Cf. QA409 Lamé functions

351 General

353.A-Z Other special functions, A-Z

353.A9 Automorphic. Fuchsian

353.C17 C-functions

353.C64 Concave functions

353.E5 Entire functions

Fuchsian see QA353.A9

353.G3 Gamma

353.G44 Generating functions

Cf. QA164.8 Combinatorial analysis

353.H9 Hypergeometric

353.K47 Kernel functions

353.P4 Periodic functions

353.T7 Transcendental functions

355 Miscellaneous special topics

360 Geometric principles of analysis. Mapping of regions.

Conformal representation

Cf. QA646 Differential geometry

Differential equations

370 Periodicals, societies, congresses, serial publications

Analysis

Differential equations -- Continued

- 371 General works, treatises, and textbooks
- Study and teaching. Research
- 371.3 General works
- 371.32 Outlines, syllabi, etc.
- 371.35 Computer-assisted instruction
- 371.5.A-Z Special topics, A-Z
- 371.5.D37 Data processing
- 372 Ordinary differential equations (linear and nonlinear)
- 372.5 Differential-algebraic equations
- 373 Differential-difference equations
- 374 Partial differential equations (first order)
- 377 Partial differential equations (second and higher orders)
- 377.3 Evolution equations
 - Cf. QC20.7.E88 Mathematical physics
- 377.5 Degenerate differential equations
- 378 Initial value problems
- 378.5 Inverse problems
- 379 Boundary value problems
- 380 Bifurcation theory
- 381 Differential forms and invariants
 - Cf. QA614.46 Pfaffian systems
- Continuous groups (of transformations). Infinitesimal transformations
- 385 General works
- 387 Topological groups. Lie groups
 - Cf. QA613.7 Topological transformation groups
 - Cf. QA613.8 Hopf algebras
 - Cf. QA614.97 Pseudogroups and deformations of structures
- Analytical methods used in the solution of physical problems
 - Including mathematical physics (mathematical theory only)
 - Cf. QC19.2+ Mathematical physics
 - Cf. TA329+ Engineering mathematics and engineering analysis
- 401 General works, treatises, and textbooks
- System analysis
 - Cf. T57.6+ Industrial engineering
 - Cf. TA168 Systems engineering
- 402 General works
- 402.2 Decomposition method
- Control theory (General and linear)
 - Cf. TJ212+ Automatic control
- 402.3 General works
- 402.35 Nonlinear control theory
- 402.37 Stochastic control theory

Analysis

Analytical methods used in the solution of physical problems

-- Continued

Mathematical optimization. Programming

Cf. T57.7+ Industrial engineering

402.5

General works

402.6

Transportation problems

Including assignment and location problems

Harmonic analysis (General)

Including abstract harmonic analysis

403

General works

403.3

Wavelets

Fourier analysis

403.5

General works

404

Fourier series

404.5

Orthogonal series. Orthogonal functions and polynomials

Potential theory. Pluripotential theory

Cf. QA825+ Analytic mechanics

404.7

General works

405

Harmonic functions

406

Laplace and Legendre functions (Spherical harmonics)

408

Bessel functions (Cylindrical harmonics)

409

Lamé functions (Ellipsoidal harmonics)

411

Toroidal and other harmonics

425

Dirichlet's problem and analogous problems

427

Nonlinear theories. Nonlinearity

431

Difference equations and functional equations. Integral equations. Calculus of differences

432

Operational calculus. Laplace transformation

433

Vector and tensor analysis. Spinor analysis. Scalar field theory

Geometry

Cf. QA681 Foundations of geometry

440

Periodicals, societies, congresses, serial publications

441

Dictionaries and encyclopedias

442

Philosophy

443

Collected works (nonserial)

443.5

History

444

Early works through 1800

445

General works, treatises, and textbooks

445.5

Juvenile works

446

Addresses, essays, lectures

447

Special aspects of the subject as a whole

448.A-Z

Special topics, A-Z

448.D38

Data processing

Elementary geometry

Geometry

Elementary geometry -- Continued

- 451 Euclid's Elements for use in schools
For commentaries, Greek texts, and translations see
QA31
- Other textbooks (Plane and solid)
- 453 General works
- 455 Plane
- 457 Solid
- 459 Problems, exercises, examinations
- 460.A-Z Special propositions, A-Z
- 460.P8 Pythagorean theorem
- Study and teaching. Research
- 461 General works, treatises, and textbooks
Special teaching methods and aids
- 462 General works
- 462.2.A-Z Special types, A-Z
- 462.2.C65 Computer-assisted instruction
- 462.2.G34 Games
- 463 Laboratory manuals
- 464 Practical geometry. Geometrical drawing
Cf. QA497 Higher geometrical drawing (Plane)
Cf. QA501+ Descriptive geometry
- 465 Measurement
- Famous problems
- 466 General works
- 467 Circle squaring
- 468 Trisection of the angle
- 469 Duplication of the cube
- 471 Projective geometry
Cf. QA554 Projective methods (Analytic geometry)
- Modern geometry. Inversions
- 473 General works
- 474 Plane
- 475 Solid
- 477 Affine geometry
- Special topics in plane geometry
- 481 Axioms. Postulates. Logic
Cf. QA681 Foundations of geometry
- 482 Straight lines, angles, triangles, etc.
- 483 Curves. Ovals
- 484 Circle
- 485 Conics
- 491 Special topics in solid geometry
Including Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc.
- 497 Higher geometrical drawing (Plane)

Geometry -- Continued

Descriptive geometry

Cf. T351+ Mechanical drawing

- 501 General works, treatises, and textbooks
- 501.5 Problems, exercises, examinations
- Parallel projection
- 502 General works
- Orthogonal projection on two planes
- 503 General works
- 505 Isometric projection
- 507 Oblique projection
- Central projection
- 511 General works
- 515 Perspective
 - Class here geometrical works only
 - Cf. NA2710 Architecture
 - Cf. NC748+ Drawing
 - Cf. T369 Mechanical drawing
- 519 Shades and shadows
 - Class here geometrical works only
 - Cf. NC755 Drawing
- 520 Spherical projection
 - Cf. GA110+ Map projection
- 521 Miscellaneous special topics
- 529 Geometry and trigonometry (combined)
- Trigonometry
- 531 General works, treatises, and textbooks
- 533 Plane
- 535 Spherical
- 537 Problems, exercises, examinations
- 538 Miscellaneous special topics
- Analytic geometry
- 551 General works, treatises, and textbooks
- 551.5 Data processing
- 552 Plane. Conic sections
- 553 Solid
- 554 Projective methods
- 555 Problems, exercises, examinations
- 556 Coordinates
- 556.5 Equipollence
- 557 Straight line and circle. Triangle
- 559 Conics
- 559.5 Curves
- 561 Quadric surfaces
- 563 Maxima and minima
- Algebraic geometry
- 564 General works, treatises, and textbooks

Geometry

Algebraic geometry -- Continued

Higher algebraic curves

- 565 General works, treatises, and textbooks
- 567 Plane curves
- 567.2.A-Z Special curves, A-Z
- 567.2.C82 Cubic
- 567.2.E44 Elliptic
- 567.2.I84 Isothermic
- 567.2.M63 Modular
- 567.2.O76 Orthogonal
- 567.2.Q35 Quartic
- 567.2.Q54 Quintic
- 567.2.S56 Smooth affine

Higher algebraic surfaces

- 571 General works, treatises, and textbooks
- 573 Special surfaces
- Including cubic, quartic surfaces

- 581 Skew algebraic curves
- Including twisted cubics, curves of double curvature

- 582 Tropical geometry

Transformations, correspondences, and general methods
for algebraic configurations

Including collineation, correlation

- 601 General works, treatises, and textbooks
- 602 Cremona transformations. Quadratic transformations
- 603 Classification of curves and surfaces. Groups of points
and curves
- 605 Applications of transcendental functions to curves and
surfaces
- 607 Enumerative geometry. Systems of curves and surfaces
- 608 Connexes, complexes, congruences. Line geometry
- For algebraic configurations in hyperspace see
QA691+

- 609 Conformal geometry

Topology

- 611.A1 Periodicals, societies, congresses, serial publications
- 611.A3 History
- 611.A34-Z General works, treatises, and textbooks
- 611.13 Juvenile works
- 611.15 Addresses, essays, lectures
- Study and teaching. Research
- 611.17 General works
- 611.19 Problems, exercises, examinations
- 611.2 Fuzzy topology
- 611.21 Imbeddings
- 611.23 Compactifications. Compact spaces

Geometry

Topology -- Continued

- 611.234 Realcompactness. Realcompactification. Realcompact spaces
- 611.24 Proximity spaces
- 611.25 Uniform spaces. Quasi-uniform spaces
- 611.28 Metric spaces
- 611.29 Isometries, contractions, expansions
- 611.3 Other miscellaneous topological spaces
For linear topological spaces see QA322
- 611.35 CW complexes
- 611.5 Topological dynamics
Including those special aspects relating to ergodic theory
Cf. QA614.8+ Differentiable dynamical systems
- 611.7 Fixed point theorems
Cf. QA329.9 Nonlinear operators
- Algebraic topology. Combinatorial topology
Cf. QA166+ Graph theory
- 612 General works
- Low-dimensional topology
Cf. QA613.2 Manifolds and cell complexes
- 612.14 General works
- 612.18 Map-coloring problem
- 612.19 Four-color problem
- Knot theory. Link theory
- 612.2 General works
- 612.23 Braid theory
- 612.24 Fixed points and coincidences
Cf. QA329.9 Fixed point theory
- Homology and cohomology theories
Cf. QA169 Homological algebra
- 612.3 General works
- 612.32 Intersection homology theory
- 612.33 K-theory. KK-theory
- 612.36 Sheaves
- 612.5 Retracts
- Fiber spaces. Fiber bundles. Fiberings
- 612.6 General works
- 612.63 Vector bundles
- Homotopy theory
- 612.7 General works
- 612.72 Homotopy equivalences
- 612.76 Loop spaces
- 612.77 H-spaces
- 612.78 Homotopy groups
- 612.782 Steenrod algebra
- 612.79 Obstruction theory

Geometry

Topology

Algebraic topology. Combinatorial topology -- Continued

612.8

Spectral sequences

Manifolds and cell complexes

Including distance geometry

613

General works

613.2

Topological manifolds

613.4

PL-topology

Differential topology

613.6

General works

613.618

Characteristic classes

613.619

Vector fields

613.62

Foliations

613.64

Differentiable mappings

613.65

Diffeomorphisms

613.658

Surgery. Handlebodies

613.659

Symplectic and contact topology

613.66

Cobordism

613.7

Topological transformation groups

Cf. QA387 Topological groups

613.8

Hopf algebras

Cf. QA387 Topological groups

Global analysis. Analysis on manifolds

614

General works

Differentiable manifolds

614.3

General works

614.4

Jets

614.42

Stratified sets

614.44

Supermanifolds

614.46

Pfaffian systems. Pfaffian problem

Calculus on manifolds

614.5

General works

614.58

Differentiable mappings and singularities. Catastrophes

614.7

Critical point theory

614.73

Harmonic maps

Differentiable dynamical systems

Cf. QA611.5 Topological dynamics

Cf. QA871 Analytic mechanicals

614.8

General works

614.813

Attractors

614.82

Flows

614.83

Hamiltonian systems

614.833

Nonholonomic dynamical systems

614.835

Random dynamical systems

614.84

Shadowing systems

614.85

Symbolic dynamics

Geometry

Topology

Global analysis. Analysis on manifolds -- Continued

614.86

Fractals. Fractal analysis

Partial differential equations and differential operators on
manifolds

614.9

General works

614.92

Index theorems

614.95

Spectral geometry

614.97

Pseudogroups and deformations of structures

Cf. QA387 Lie groups

Infinitesimal geometry

615

General works, treatises, and textbooks

Of curves

621

General works

623

Kinematic geometry. Roulettes

624

Curvature

626

Rectification and quadrature

628

Transcendental curves

Of surfaces

631

General works

634

Curvature

636

Areas and volumes

638

Transcendental surfaces

639

Differential geometry of congruences, etc.

Convex geometry

639.5

General works

640

Convex sets and geometric inequalities

640.3

Convex polyhedra. Convex polytopes

640.5

Convexity spaces

Discrete geometry

640.7

General works

640.72

Aperiodic tilings

640.77

Rigidity

Differential geometry

Including general theory of surfaces

641

General works, treatises, and textbooks

642

Problems, exercises, examinations

643

Curves on surfaces

644

Minimal surfaces. Nets of plane curves

645

Surfaces determined by relations of curvature, etc.

646

Conformal and other representations of surfaces

Cf. GA110+ Map projection

Cf. QA360 Mapping of regions, conformal
representation

648

Deformation of surfaces

648.5

Web geometry

Geometry

Differential geometry -- Continued

- 649 Miscellaneous special topics
- 660 Projective differential geometry
- 665 Symplectic geometry. Contact geometry
- Global differential geometry
 - Cf. QA614+ Global analysis. Analysis on manifolds
- 670 General works
- 671 Global Riemannian geometry
- 671.5 Spin geometry
- 672 Integral geometry
- 681 Foundations of geometry
- 685 Non-Euclidean geometry
- 689 Generalized spaces
- Hyperspace
 - 691 General works
 - 699 Popular works. Fiction
 - Including Flatland, fourth dimension

Analytic mechanics

- Class here mathematical works only
- Cf. QC120+ Descriptive and experimental mechanics
- Cf. TA349+ Applied mechanics
- 801 Periodicals, societies, congresses, serial publications
- 801.2 Collected works (nonserial)
- 801.5 Dictionaries and encyclopedias
- 801.6 Philosophy
- 802 History
 - Including general history of mechanics
- 803 Newton's Principia and commentaries
- 804 Early works through 1800
- 805 General works, treatises, and advanced textbooks
- 807 Elementary textbooks
- 807.5 Addresses, essays, lectures
- 808 Special aspects of the subject as a whole
- 808.2 Continuum mechanics
 - Cf. QC155.7 Fluid dynamics
- 808.5 Relativistic mechanics
- 808.8 Study and teaching
- 809 Problems, exercises, examinations
- 810 Handbooks, tables, formulas, etc.
- Statics
 - Cf. TA351 Engineering
- 821 General works, treatises, and textbooks
- 823 Composition and resolution of forces at a point
- Attractions and potential
 - Cf. QA404.7+ Potential theory
 - Cf. QC570+ Electrostatics

Analytic mechanics

Statics

Attractions and potential -- Continued

825 General works, treatises, and textbooks

827 Ellipsoids and other special systems

831 Rigid bodies. Forces and couples in three dimensions.
Equilibrium

835 Chains and flexible surfaces. Catenary

839 Geometry of masses. Center of mass. Moments of inertia

Kinematics

Including composition of motions and displacements, relative motions, moving axes, theory of screws

Cf. QA623 Roulettes

Cf. QC231 Kinematics (Physics)

Cf. TJ175 Kinematics of machinery

841 General works

842 Relativistic kinematics

Dynamics

Cf. QC133+ Descriptive and experimental mechanics

Cf. UF820+ Motion of projectiles (Ballistics)

843 Periodicals, societies, congresses, serial publications

845 General works, treatises, and advanced textbooks

846 Elementary textbooks

Dynamics of a particle

Cf. QB349+ Celestial mechanics

Cf. QC174.17.P7 Problem of many bodies (Quantum theory)

851 General works, treatises, and textbooks

852 Special aspects of the subject as a whole

Including resistance, friction

853 Orbital and constrained motion

855 Motion of surfaces

Rigid dynamics

861 General works, treatises, and textbooks

862.A-Z Special systems, A-Z

862.G9 Gyroscope

862.P4 Pendulum

862.P5 Pistons

862.P76 Projectiles

862.T7 Top

863 Miscellaneous special topics

Theory of vibrations. Oscillations

Cf. QA935+ Vibrations of elastic bodies

865 General works

867 Harmonic motion

867.5 Nonlinear oscillations

Analytic mechanics

Dynamics -- Continued

871

General methods in dynamics

Including Lagrange's equations, Hamilton's equations, least action, stability of systems

Mechanics of deformable bodies

Fluid mechanics

Cf. QC120+ Descriptive and experimental mechanics

Cf. TA357+ Applied fluid mechanics

901

General works, treatises, and textbooks

903

Problems, exercises, examinations

Hydrostatics

905

General works, treatises, and textbooks

907

Miscellaneous special topics

Including floating bodies, etc.

Cf. VM761+ Stability of ships

Fluid dynamics. Hydrodynamics

Cf. TC160+ Hydraulics

911

General works, treatises, and textbooks

912

Relativistic fluid dynamics

913

Kinematics of fluids. Irrotational motions

920

Magnetohydrodynamics. Magnetofluid dynamics

Cf. QC717+ Ion flow dynamics

Cf. QC718.5.M36 Plasma physics

Cf. QC809.M3 Cosmic physics

922

Two-phase flow. Multiphase flow

922.5

Uniform flow

924

Jets and cavities

925

Rotating fluids. Vortex motion

Cf. QB410 Rotating masses of gravitating fluid

925.5

Bubbles

927

Wave propagation in fluids. Theory of wave motion

Cf. QC223 Mathematical theory of sound

929

Viscous fluids

929.5

Non-Newtonian fluids

Cf. QC189.5+ Rheology

930

Gas dynamics. Aerodynamics

Cf. QC120+ Descriptive and experimental mechanics

Cf. TL570+ Aeronautics

Elasticity. Plasticity

Cf. QC191 Special properties of matter

Cf. TA418+ Mechanical properties of materials

931

General works, treatises, and textbooks

932

Micropolar elasticity

QA

MATHEMATICS

QA

Analytic mechanics

Elasticity. Plasticity -- Continued

933

Thermoelasticity

Cf. TA418.24+ Temperature dependent properties of materials

934

Torsion

Vibrations of elastic bodies. Wave propagation in elastic solids

935

General works

937

Impact

939

Surface waves

- Astronomy
- 1 Periodicals, societies, congresses, serial publications
Museums. Exhibitions
 - 2.A1 General works
 - 2.A2-Z By region or country, A-Z
Subarrange each country by Table Q5
 - 3 Collected works (nonserial)
Observations
Including serial collections issued by individual observatories.
For annual reports see QB82.A+
 - 4.A-Z By name of issuing observatory, A-Z
 - 4.9.A-Z By region or country, A-Z
 - 6 Star catalogs
Including zone observations, etc.
For catalogs of double stars, multiple stars, binary systems
see QB821
For catalogs of variable stars see QB835
Ephemerides
For ephemerides of individual planets, see QB611 QB621 etc.
For ephemerides of planets collectively see QB603.E6
 - 7 Early through 1800
1801-
 - 8.A-Z Nautical and air (or aeronautical) almanacs. By country, A-Z
Z
 - 9 Other yearbooks
General tables
 - 11 Early through 1800
 - 12 1801-
 - 14 Dictionaries and encyclopedias
Communication in astronomy
 - 14.2 General works
 - 14.25 Information services
 - 14.3 Computer network resources
Including the Internet
 - 14.5 Philosophy
 - History
 - 15 General works
Ancient
 - 16 General works
Cf. CE21+ Ancient chronology
Cf. GN799.A8 Astronomy (Prehistoric archaeology)
 - 17 Chinese
 - 18 Hindu
 - 19 Assyro-Babylonian, etc.
Jewish see QB34
 - 20 Egyptian
 - 21 Greek

- History
 - Ancient -- Continued
 - 22 Roman
 - 22.2 Celtic
 - 22.3 Etruscan
 - Medieval
 - Including Arabic astronomy
 - 23 General works
 - Astrology
 - 25 History
 - Cf. BF1671+ Occult sciences
 - 26 Medieval works
 - Cf. BF1680+ Occult sciences
 - Modern astrology see BF1651+
 - Modern
 - 28 General works
 - 29 Renaissance through 1700
 - 31 18th century
 - 32 19th-20th centuries
 - 33.A-Z By region or country, A-Z
 - 34 Jewish astronomy
 - Maori astronomy see DU423.A85
 - 34.5 Women in astronomy. Women astronomers
- Biography
 - 35 Collective
 - 36.A-Z Individual, A-Z
 - e.g.
 - 36.B8 Brahe
 - 36.C8 Copernicus
 - 36.G2 Galileo
- 40 Directories
- 41 Early works through 1700
 - Cf. GA6 Cosmography
 - Cf. VK551 Navigation (Early works)
- General works, treatises, and advanced textbooks
 - Cf. QB500 Descriptive astronomy
 - 42 1701-1800
 - 43 1801-1969
 - 43.2 1970-2000
 - 43.3 2001-
- Popular works
 - 44 Through 1969
 - 44.2 1970-2000
 - 44.3 2001-
- Elementary textbooks
 - 45 To 2000
 - 45.2 2001-

- 46 Juvenile works
Cf. QB63 Stargazers' guides
- 47 Special aspects of the subject as a whole
- 51 Addresses, essays, lectures
- 51.3.A-Z Special topics, A-Z
- 51.3.E43 Electronic data processing
- 51.3.I45 Imaging systems
- 51.3.L53 Light pollution
- 51.3.M38 Mathematics
- Statistical methods see QB149
- 51.5 Astronomy as a profession. Vocational guidance
- 52 Miscellany and curiosa
- 54 Extraterrestrial life
Cf. CB156 Terrestrial, evidence of interplanetary voyages
- (55) Astronomical myths, legends, and superstitions
see GR625
- Study and teaching. Research
- 61 General works
- 62 Outlines, syllabi
- 62.5 Problems, exercises, examinations
- 62.7 Laboratory manuals
- 63 Stargazers' guides
- 64 Observers' handbooks
Cf. TL796.8 Artificial satellites
- 65 Atlases and charts
- 66 Astronomical globes
Cf. GA12 Manual for globes
- 67 Miscellaneous models
- 68 Pictorial works and atlases
- Planetariums
Including orreries
- 70 General works
- 71.A-Z By region or country, A-Z
Under each country:
.x *General works*
.x2A-.x2Z *Individual planetariums. By city, A-Z*
- Observatories
Cf. QB479.A2+ Radio observatories
Cf. QB500.267+ Orbiting astronomical observatories
- 81 General works

- Observatories -- Continued
- 82.A-Z By region or country, A-Z
Under each country:
 .x *General works*
 .x2A-.x2Z *Individual observatories. By place, A-Z*
Including description, history, annual reports, individual named telescopes, etc.
- 84 Observatory buildings
 Including domes, piers, rising floors, chairs
- Astronomical instruments
 Including description, theory, adjustment
- 84.5 Periodicals, societies, congresses, serial publications
 Biography of instrument makers
- 84.7 Collective
 84.75.A-Z Individual, A-Z
- 85 Early. Astrolabes, etc.
 Including descriptions of early observatories
- Modern
- 85.8 History
- 86 General works, treatises, and textbooks
- 86.4 Catalogs
 Telescopes. Objectives. Mirrors
 Including homemade telescopes, optics, accessories
 For individual named telescopes in observatories see
 QB82.A+
 Cf. QB479.2 Radio telescopes
 Cf. QB500.268 Hubble Space Telescope
- 88 General works
- 90 Large astronomical telescopes
- 97 Equatorial mountings. Driving clocks. Siderostats.
 Heliostats. Coelostats
- 101 Meridian instruments
 Including transit circle, zenith telescope, visual and photographic
- 103 Extra-meridian instruments
 Including altazimuth, almucantar, transit out of meridian, vertical circle
- 105 Portable instruments
 Including transit, solar compass
 Cf. VK583 Sextant
- 107 Clocks. Chronometers. Chronographs
 For use of chronograph in ballistics see UF830.C4
- 111 Eyepieces
- 113 Micrometers
- 115 Levels. Artificial horizons. Illumination, etc.

- Astronomical instruments
 - Modern -- Continued
 - 117 Optical interferometers
- Astronomical photography
 - 121 General works
 - 121.5 Equipment and supplies
 - 125 Television in astronomy
 - 126 Video astronomy
- Electronics in astronomy
 - 127 General works
 - Equipment and supplies
 - 127.2 General works
 - 127.4 Charge coupled devices
- 135 Astronomical photometry
- Astronomical spectroscopy see QB465
- 135.5 Aeronautics in astronomy
 - Including balloons, etc.
- 136 Space astronomy
 - Including aeronautics in astronomy
- 139 Telegraphic codes for transmission of astronomical data
- Practical and spherical astronomy
 - Cf. QB66 Use of globes
 - Cf. VK551+ Nautical astronomy
- 140 Periodicals, societies, congresses, serial publications
- 143 Dictionaries and encyclopedias
- 144 Early works through 1800
- 145 General works, treatises, and textbooks
- 147 Celestial sphere and coordinates
- 149 Statistical astronomy
- Correction and reduction of observations
 - 151 General works, treatises, and textbooks
 - 153 Personal equation
 - Involving apparatus for its determination
 - 154 Errors of adjustment, etc.
 - Reduction to center of earth
 - Refraction
 - 155 Theory and determination of constant
 - 156 Tables
 - 159 Parallax
 - Correction for movement of earth and equinoxes
 - Including determination of constants by observation
 - 161 General works, treatises, and textbooks
 - 163 Aberration
 - Cf. QC671 Electromagnetic theory
 - 165 Precession and nutation
 - 167 Annual parallax
 - 168 Star reduction (from mean to apparent place)

Practical and spherical astronomy -- Continued

- 169 Position of pole
 171 Determination of the ecliptic
 Prediction of eclipses, occultations and transits
 175 General works
 185 Miscellaneous phenomena at occultations and transits
 Geodetic astronomy
 Including determination of geographical positions
 201 General works, treatises, and textbooks
 Observations
 Cf. QB296.A1+ Observations (Geodesy)
 205.A1 Periodicals, societies, congresses, serial publications
 205.A2 General works, treatises, and textbooks
 205.A3-Z By region or country, A-Z
 e.g.
 Mexico
 205.M6 General works
 205.M7A-.M7Z Local, A-Z
 United States
 205.U4-.U5 General works
 205.U6A-.U6Z By region or state, A-Z
 205.U7A-.U7Z By city, A-Z
 207 Azimuth. Determination of meridian
 Time
 For historical chronology, calendar, etc. see CE1+
 Cf. BD638 Cosmology
 Cf. BF468 Psychology
 Cf. GN476.3 Anthropology
 Cf. QC173.59.T5 Time dilatation
 209 General works
 209.5 Juvenile works
 Time service
 210.A1 General works, treatises, and textbooks
 210.A3-Z By region or country, A-Z
 211 Sidereal and solar, and their conversion
 213 Methods of finding the time
 214 Instruments for measuring the time
 Including hourglasses
 Cf. TS540+ Watches and clocks
 215 Sundials and dialing
 216 Sunrise and sunset
 217 Equation of time
 221 Time signals, etc.
 223 Systems and standards
 224 Prime meridians
 Longitude and latitude
 224.5 General works, treatises, and textbooks

- Practical and spherical astronomy
- Longitude and latitude -- Continued
- 224.7.A-Z By region or country, A-Z
- Longitude
- 225 Methods of determination
- 228 Tables and ephemerides
- Observations
- 229 General works, treatises, and textbooks
- 229.5.A-Z By region or country, A-Z
- Latitude
- 231 Methods of determination
- 233 Tables and ephemerides
- Observations
- 235 General works, treatises, and textbooks
- 235.5.A-Z By region or country, A-Z
- 237 Variation of latitude
- Geodesy
- 275 Periodicals, societies, congresses, serial publications
- 279 Dictionaries and encyclopedias
- 280 Collected works (nonserial)
- 280.5 History
- 281 General works, treatises, and textbooks
- 281.5 Geodesy as a profession. Vocational guidance
- 283 Mathematical theory of the figure of the earth
- Cf. QA827 Attractions of ellipsoids
- Cf. QB331 Isostasy
- Cf. QB410 Rotating masses of fluid
- 285 Popular works
- 286 Juvenile works
- 287 Addresses, essays, lectures
- 291 Special arc measures
- Observations
- 296.A1 General works, treatises, and textbooks
- 296.A3-Z By region or country, A-Z
- 297 Data processing
- Biography
- 297.9 Collective
- 298.A-Z Individual, A-Z
- e.g.
- 298.H4 Hassler
- 298.R8 Rylke
- Study and teaching. Research
- 299 General works
- 299.5.A-Z By region or country, A-Z
- Geodetic surveying
- Cf. TA501+ Plane surveying
- Cf. VK588+ Hydrographic surveying

Geodesy

Geodetic surveying -- Continued

- 301 General works
- 303 Base measuring
Including apparatus
Cf. QC101 Standards of length
- 311 Triangulation
Cf. TA583 Plane surveying
- 321 Theory and computation. Tables, etc.
Cf. QA275 Least squares
- 325 Traverse surveying
Cf. TA585 Plane surveying
- Instruments
Cf. TA562+ Surveying instruments, methods, etc.
- 328.A1 General works, treatises, and textbooks
- 328.A2-Z Special, A-Z
- 328.G4 Geodimeter
- 328.P7 Prismatic astrolabe
- 328.T4 Tellurometer
- Gravity determinations
- 330 Periodicals, societies, congresses, serial publications
- 331 Theory and description of apparatus. Isostasy
Cf. QA862.P4 Dynamics of pendulum
- Observations
Including length of seconds, pendulum, etc.
- 334 General works, treatises, and textbooks
- 335.A-Z By region or country, A-Z
- 336 Data processing
- Gravity anomalies
- 337 General works, treatises, and textbooks
- 337.5.A-Z By region or country, A-Z
- 338 Plumbline deflections
- 339 Disturbances
Including lunar, solar, earth movements
- 341 Constant of gravitation. Mean density of the earth
- 343 Satellite geodesy. Artificial satellites in geodesy
Cf. TL798.G4 Geodetic satellites
- Theoretical astronomy and celestial mechanics
Cf. TL1050+ Astrodynamics
- 349 Periodicals, societies, congresses, serial publications
- 350 Collected works
- 350.5 History
- 351 General works, treatises, and textbooks
- 353 Addresses, essays, lectures
- Calculation of orbits. Orbit determination
For orbits of individual planets see QB371+
For planetary orbits in general see QB603.M6

- Theoretical astronomy and celestial mechanics
 Calculation of orbits. Orbit determination
- 355 General works, treatises, and textbooks
 355.3 Kepler's laws
 355.5 Kepler's equation
 357 Comets (General)
 For orbits of individual comets see QB723.A+
- Perturbations
 Planetary theory
- 361 General works, treatises, and textbooks
 361.9 Special aspects of the subject as a whole
 362.A-Z Special topics, A-Z
 362.F47 Few-body problem
 362.M3 Many body problem
 362.T5 Three body problem
 362.T9 Two body problem
 369 Tables and observations
 Individual planets
 Including tables and orbits
- 371 Mercury
 372 Venus
 374 Sun's apparent motion
 376 Mars
 Asteroids. Minor planets
- 377 General works, treatises, and textbooks
 Individual
 By name, A-Z
 By number, if unnamed
- 378.A-Z
 379
 384 Jupiter and Saturn
 387 Uranus
 388 Neptune
 389 Ultra-Neptunian planets
- Lunar theory
- 391 General works, treatises, and textbooks
 391.9 Special aspects of the subject as a whole
 392.A-Z Special topics, A-Z
 392.C3 Capture of the moon by the earth
 392.I5 Inequalities of the moon's motion
 392.O3 Occultations of stars
 397 Observations
 399 Tables, charts, diagrams, etc.
- Satellites
 Including individual planetary satellites
 Cf. QB603.R55 Planetary rings
 Cf. TL796+ Artificial satellites
- 401 General works, treatises, and textbooks
 401.5 Juvenile works

- Theoretical astronomy and celestial mechanics
- Perturbations
 - Satellites -- Continued
 - 403 Satellites of Mars
 - 404 Satellites of Jupiter
 - 405 Satellites and ring system of Saturn
 - 406 Satellites of Uranus
 - 407 Satellites and ring system of Neptune
 - 408 Satellites of Pluto
 - 410 Figures of equilibrium of rotating masses of fluid
 - Theory of tides
 - Cf. GC300+ Oceanography
 - Cf. QC809.E2 Earth tides
 - Cf. VK600+ Tidetables
 - 414 Early works through 1800
 - General works, treatises, and textbooks
 - 415 1801-1969
 - 415.2 1970-
 - 416 Special aspects of the subject as a whole
 - 418 Dictionaries and encyclopedias
 - 419 Miscellany and curiosa
 - Instruments see GC306
 - 421 Theory of double star systems
 - Cosmochemistry
 - 450 General works
 - 450.5 Cosmic abundance
 - Astrogeology
 - Cf. QB592 Lunar geology
 - Cf. QB603.G46 Planetary geology
 - Biography
 - 454 Collective
 - 454.2.A-Z Individual, A-Z
 - 455 General works
 - 455.2 Astromineralogy
 - 455.5 Extraterrestrial seismology
 - Cf. QB539.I5 Helioseismology
 - Cf. QB812 Astroseismology
 - 456 Multiring basins
 - Astrophysics (General)
 - 460 Periodicals, societies, congresses, serial publications
 - 460.15 Collected works (nonserial)
 - Biography
 - 460.7 Collective
 - 460.72.A-Z Individual, A-Z
 - 461 General works, treatises, and textbooks
 - 461.3 Popular works
 - 461.5 Addresses, essays, lectures

Astrophysics (General) -- Continued

- 462.2 Data processing
- 462.3 Mathematics
- 462.5 Radio astrophysics
- 462.6 Molecular astrophysics
- 462.65 Relativistic astrophysics
- Plasma astrophysics
- 462.7 General works
- 462.72 Double layers
- 462.8 Cosmic magnetic fields
- Nuclear astrophysics
- 463 Periodicals, societies, congresses, serial publications
- 463.15 Collected works (nonserial)
- 464 General works, treatises, and textbooks
- 464.15 Particle acceleration
- 464.2 Neutrino astrophysics
- 464.3 Nucleosynthesis
- 464.4 Radiative capture
- 465 Astronomical spectroscopy
 - Cf. QB551 Spectroscopy of sun and eclipses
 - Cf. QB870+ Stellar spectroscopy
- 466.A-Z Other topics, A-Z
- 466.A25 Accretion
- 466.C45 Chaotic behavior in systems
- 466.C64 Collisions
- 466.C65 Compact objects
- 466.C66 Controlled fusion
- 466.C67 Cosmochronology
- 466.D58 Disks
- 466.E65 Equations of state
- 466.F58 Fluid dynamics
- 466.G38 Gas dynamics
- 466.J46 Jets
- 466.M37 Mass loss
- 466.P67 Positronium
- Non-optical methods of astronomy
- 468 General works
- Infrared astronomy
 - 470.A1 Periodicals, societies, congresses, serial publications
 - 470.A5-Z General works, treatises, and textbooks
- Gamma ray astronomy
 - 471.A1 Periodicals, societies, congresses, serial publications
 - 471.A5-Z General works, treatises, and textbooks
 - 471.7.A-Z Special topics, A-Z
 - 471.7.B85 Bursts
- X-ray astronomy
 - 472.A1 Periodicals, societies, congresses, serial publications

- Non-optical methods of astronomy
 X-ray astronomy -- Continued
- 472.A5-Z General works, treatises, and textbooks
 472.5 Juvenile works
 473 Addresses, essays, lectures
 474 Ultraviolet astronomy
 Radio astronomy
 Cf. QB860 Quasars
- 475.A1 Periodicals, societies, congresses, serial publications
 475.A15 Collected works (nonserial)
 475.A2 Dictionaries and encyclopedias
 History
 475.A25 General works
 475.A28A-.A28Z By region or country, A-Z
 476.5 General works, treatises, and advanced textbooks
 477 Popular works
 478 Juvenile works
 478.5 Addresses, essays, lectures
 Observatories
 479.A2 General works
 479.A5-Z By region or country, A-Z
 Under each country:
 .x *General works*
 .x2A-.x2Z *Individual observatories. By name,*
 A-Z
- 479.2 Radio telescopes
 479.3 Radio interferometers
 479.4 Millimeter astronomy
 Radio sources
 479.5 General works
 479.55.A-Z Individual radio sources or types of radio sources, A-Z
 479.55.C93 Cygnus A
 479.55.H68 Hot spots
 479.55.M18 M87 (Galaxy)
 479.55.R34 Radio Galaxies
 479.55.S88 Superluminal
 480 Radar in astronomy
- Descriptive astronomy
 Periodicals, societies, congresses, serial publications see
 QB1
 General works, treatises, and textbooks see QB42+
 Universe. Space. Space sciences
 Cf. QB980+ Cosmology
 Cf. TL787+ Astronautics. Space travel
- 495 Periodicals, societies, congresses, serial publications
 496 Collected works
 497 Dictionaries and encyclopedias

Descriptive astronomy

Universe. Space. Space sciences -- Continued

- 497.2 Communication in space sciences
- History
- 498 General works
- 498.2.A-Z By region or country, A-Z
- 500 General works, treatises, and advanced textbooks
- 500.22 Juvenile works
- 500.24 Addresses, essays, lectures
- 500.25 Special aspects of the subject as a whole
- 500.26.A-Z Special topics, A-Z
- 500.26.D38 Data processing
- 500.26.I58 International cooperation
- 500.26.S67 Space optics
- Study and teaching. Research
- Including exploration of outer space
- 500.262 General works
- 500.264 Experiments
- 500.266.A-Z By region or country, A-Z
- Orbiting astronomical observatories
- 500.267 General works
- 500.268 Hubble Space Telescope
- 500.269 Next Generation Space Telescope
- 500.28 Northern sky
- 500.3 Southern sky
- Solar system
- 500.5 Periodicals, societies, congresses, serial publications
- 501 General works, treatises, and textbooks
- 501.2 Popular works
- 501.3 Juvenile works
- 501.5 Study and teaching. Research
- 502 Miscellany and curiosa
- 503 Age of solar system. Origin of solar system
- 505 Physical conditions
- Including atmospheres, resisting medium, etc.
- 507 Proper motion in space
- Solar parallax and related constants
- 508 General works
- Transit of Venus
- 509 General works, treatises, and textbooks
- 509.5 1639 transit
- 511 1761 and 1769 transits
- 512 1874 transit
- 513 1882 transit
- 513.2 2004 transit
- 515 Transit of Mercury
- 516 Observations of Mars and asteroids

Descriptive astronomy

Solar system

Solar parallax and related constants -- Continued

518

Other methods

Sun

520

Periodicals, societies, congresses, serial publications

521

General works, treatises, and textbooks

521.4

Popular works

521.5

Juvenile works

521.6

Addresses, essays, lectures

522

Tables, etc.

Cf. QB374 Perturbations

523

Mass, diameter, rotation, etc.

Solar activity

524

General works

525

Sunspots

Cf. BF1729.S92 Astrology

526.A-Z

Other special topics, A-Z

526.A37

Active regions

526.C9

Cycles

Energetic particles see QB526.S65

526.F3

Faculae

526.F6

Flares

526.F64

Focculi. Plages

Plages see QB526.F64

526.P7

Prominences

526.S65

Solar energetic particles

528

Atmosphere, chromosphere

Corona. Solar wind. Heliosphere

529

General works

529.5

Coronal holes

529.6

Corotating interaction regions

531

Radiation, temperature, etc.

Cf. QC910.2+ Solar radiation in meteorology

539.A-Z

Other special topics, A-Z

539.C6

Composition

539.E4

Electric field

539.E8

Evolution

539.G7

Granulation

Helioseismology see QB539.I5

539.I5

Interior

Including helioseismology

539.M23

Magnetic fields

539.N6

Noise storms

539.N8

Nuclear reactions

539.O83

Oscillations

539.P58

Polarimetry

Descriptive astronomy

Solar system

Sun

Other special topics, A-Z -- Continued

539.R3

Radio effects

Seismology see QB539.I5

539.S5

Size

539.S65

Solar neutrinos

539.S655

Solar x-rays

539.T4

Terrestrial-solar relations

540

Miscellany and curiosa

Solar eclipses

Including works on solar and lunar eclipses combined

Cf. BL325.E35 Eclipses (Mythology)

541

General works, treatises, and textbooks

541.5

Juvenile works

542

Through 1799

Class here works on individual solar eclipses occurring through 1799, as well as works discussing collectively eclipses in that time period

1800-

542.5

Collective

Individual

543

1800-1899

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB543 followed by author number and date of publication, e. g. QB543.98.I53 1899, Indian eclipse, 1898; report of the expeditions, c1899

544

1900-1999

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB544 followed by author number and date of publication, e. g. QB544.91.R36 1989, Rao Joe. Your guide to the great solar eclipse of 1991, c1989

545

2000-2099

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB545 followed by author number and date of publication

551

Spectroscopy of sun and eclipses

579

Lunar eclipses

Moon

580

Periodicals, societies, congresses, serial publications

581

General works, treatises, and textbooks

581.9

Popular works

Descriptive astronomy

Solar system

Moon -- Continued

- 582 Juvenile works
- 582.3 Study and teaching. Research
- 582.5 Exploration
 - Cf. TL799.M6 Space flights to the moon
- 583 Distance, parallax
- 585 Rotation, libration, and shape
- 588 Temperature, radiation, brightness, phases
- 591 Surface, physical condition, meteorology
- 592 Lunar geology. Lunar petrology
 - Cf. TN291.35 Lunar mining
- 595 Photographs, maps, drawings

Planets. Planetology

- Cf. QB54 Extraterrestrial life
- Cf. QB401+ Satellites
- Cf. QB500.5+ Solar system
- Cf. QB820 Extrasolar planets
- Cf. TL799.A+ Flights to special planets
- 600 Periodicals, societies, congresses, serial publications
- 600.2 Dictionaries and encyclopedias
- Communication of planetological information
 - 600.3 General works
 - 600.32 Information services
 - 600.33 Geographic information systems
 - 600.34 Computer network resources
 - Including the Internet
 - 600.35 Planetological literature
- 600.5 Nomenclature, terminology, names
- 601 General works, treatises, and textbooks
- 601.9 Popular works
- 602 Juvenile works
- 602.9 Special aspects of the subject as a whole
- 602.95 Data processing
- 603.A-Z Special topics, A-Z
 - 603.A85 Atmospheres
 - Including meteorology
 - 603.C6 Composition
 - 603.C7 Cratering
 - 603.C78 Crust
 - 603.E6 Ephemerides
 - 603.F5 Figures
 - 603.G46 Geology
 - Cf. TN291.3+ Space mining
- 603.I52 Infrared radiation
- 603.I53 Internal structure

Descriptive astronomy

Solar system

Planets. Planetology

Special topics, A-Z -- Continued

- 603.I55 Interplanetary medium
 - Including interplanetary dust
- 603.I57 Ionospheres
- 603.M26 Magnetic fields
- 603.M3 Mass
- 603.M6 Meteorology see QB603.A85
- Motion
 - Including orbits
 - For orbits of individual planets see QB371+
- 603.O74 Origin
- 603.R3 Radiation
- 603.R55 Rings
 - Cf. QB405 Ring system of Saturn
 - Cf. QB407 Ring system of Neptune
- 603.S6 Spectroscopy
- 603.S95 Surfaces
- 603.V65 Volcanism
- 604 Tables, etc.
- 605 Photographs, maps, drawings
- 605.2 Miscellany and curiosa
- Inferior planets
 - 606 General works
 - 607 Intramercurial planets
- Mercury
 - 611 General works
 - 613.A-Z Special topics, A-Z
 - 613.G46 Geology
 - Transit of Mercury see QB515
- Venus
 - 621 General works
 - 623.A-Z Special topics, A-Z
 - 623.A86 Atmosphere
 - 623.G46 Geology
 - 623.M48 Meteorology
 - Transit of Venus see QB509+
 - 623.V65 Volcanism. Volcanoes
 - 623.W56 Winds
- Earth as a planet. Astronomical geography
 - Cf. QE500+ Geology
- 630 Periodicals, societies, congresses, serial collections
- 631 General works, treatises, and textbooks
- 631.2 Popular works
- 631.4 Juvenile works

Descriptive astronomy

Solar system

Planets. Planetology

Earth as a planet. Astronomical geography -- Continued

- 632 Origin
- 633 Rotation
- 637 Photographs from space
- Seasons
 - Cf. GR930 Folklore
 - 637.2 General works, treatises, and textbooks
 - 637.4 Juvenile literature
 - 637.5 Spring
 - 637.6 Summer
 - 637.7 Autumn
 - 637.8 Winter
- 638 Miscellany and curiosa
- 638.8 End of the world
- Superior planets
 - Including other objects beyond Earth
 - For their satellites, see QB403+
- 639 General works
- Mars
 - 641 General works
 - 643.A-Z Special topics, A-Z
 - 643.A86 Atmosphere
 - 643.C55 Climate
 - 643.D87 Dust storms
 - 643.G46 Geology
 - 643.G73 Gravity
 - 643.M48 Meteorology
 - Satellites see QB403
 - Seasons
 - 643.V65 Volcanism. Volcanoes
 - 643.W38 Water
 - 643.W56 Wind erosion
- Asteroids
 - 651 General works
 - 653.A-Z Individual asteroids, A-Z
- Outer planets
 - 659 General works
 - Jupiter
 - 661 General works
 - 663.A-Z Special topics, A-Z
 - 663.A86 Atmosphere
 - Satellites see QB404
 - Saturn
 - 671 General works

Descriptive astronomy

Solar system

Planets. Planetology

Superior planets

Outer planets

Saturn -- Continued

673.A-Z

Special topics, A-Z

Ring system see QB405

Satellites see QB405

Uranus

681

General works

683.A-Z

Special topics, A-Z

Satellites see QB406

Neptune

691

General works

693.A-Z

Special topics, A-Z

Ring system see QB407

Satellites see QB407

Trans-Neptunian objects

Cf. QB701+ Pluto

694

General works

695

Kuiper Belt

Dwarf planets

698

General works

Pluto

701

General works

703.A-Z

Special topics, A-Z

Satellites see QB408

705

Ceres

Comets

Cf. QB357 Calculation of orbits

717

Periodicals, societies, congresses, serial publications

721

General works, treatises, and textbooks

721.4

Popular works

721.5

Juvenile works

721.6

Addresses, essays, lectures

722

Catalogs

723.A-Z

Periodic comets. By name, A-Z

(723.A7)

Arrest's comet

see QB723.D37

723.B5

Biela comet

723.B7

Brooks comet

723.B8

Brorsen comet (I)

723.C6

Comas Sola comet

723.D37

D'Arrest comet

723.D45

Delavan comet

723.D5

Denning comet

Descriptive astronomy

Solar system

Comets

Periodic comets. By name, A-Z -- Continued

723.E3	Encke comet
723.F2	Faye comet
723.G43	Geddes comet
723.H17	Hale-Bopp comet
723.H2	Halley's comet
723.H7	Holmes comet
723.L6	Lexell comet
723.M67	Morehouse comet
723.S56	Shoemaker-Levy 9 comet
723.T3	Tempel 1 comet
723.T8	Tuttle comet
723.V35	Van Biesbroeck comet

Comets before 1700

724

1700-1799

Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB725 followed by author number and date of publication

726

1800-1899

Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB726 followed by author number and date of publication, e.g. QB726.61.K8, Kreutz, Heinrich, Untersuchungen über die Bahn des grossen Kometen von 1861

727

1900-1999

Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB727 followed by author number and date of publication

728

2000-2099

Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB728 followed by author number and date of publication

729

Distribution of comets

731

Nature and constitution (before the spectroscope)

732

Nature and constitution (modern views)

738

Meteoroids

Meteors

740

Periodicals, societies, congresses, serial publications

741

General works, treatises, and textbooks

741.5

Juvenile works

Descriptive astronomy

Solar system

Meteors -- Continued

- 743 Methods of observation and geometrical topics
Including radiants, altitude, etc.
- Periodic showers
- 745 November
- 746 August
- 748 Orbits
- 748.2 Streams
- Relation between meteors and comets
- 749 General works
- 751 Other theories of the origin of meteors
- 753 Remarkable meteors, fireballs
- Meteorites
- Including craters
Cf. QE399 Tektites
- 754.8 Periodicals, societies, congresses, serial publications
- 755 General works, treatises, and textbooks
- 755.2 Juvenile literature
- 755.3 Addresses, essays, lectures
- 755.5.A-Z By region or country, A-Z
- 756.A-Z Individual meteorites and craters, A-Z
- 756.A44 Allende meteorite
- 756.C45 Chinguetti meteorite
- 756.F47 Fermo meteorite
- 756.K87 Kurinelli meteorite
- 756.M4 Meteor Crater (Ariz.)
- 756.O74 Orgueil meteorite
- 756.P67 Port Orford meteorite
- 756.S5 Sikhote-Alin meteorite
- 756.T58 Thuathe meteorite
- 756.T8 Tunguska meteorite
- 756.V74 Vredefort Dome (South Africa)
- Meteorite types or classes
- Iron meteorites. Siderites
- 757 General works, treatises, and textbooks
- 757.5.A-Z Special, A-Z
- 757.5.A73 Ataxites
- 757.5.H49 Hexahedrites
- 757.5.O37 Octahedrites
- Stony meteorites. Aerolites
- 758 General works, treatises, and textbooks
- 758.5.A-Z Special, A-Z
- 758.5.A47 Achondrites
- 758.5.C46 Chondrites
- 759 Stony-iron meteorites. Siderolites. Intermediates

Descriptive astronomy

Solar system -- Continued

- 761 Zodiacal light. Counterglow. Gegenschein
- Spectroscopy of moon, planets, comets, etc.
- 770 Moon
- 775 Planets
- 780 Comets
- 785 Meteors

Interstellar matter

- 790 General works
- 791 Cosmic dust
- 791.2 Cosmic grains
- 791.3 Dark matter
- 791.35 Missing mass
- 791.4 Molecular clouds
- 791.5 Interstellar hydrogen
- 791.7 Interstellar magnetic fields
- 792 Circumstellar matter

Stars

- Cf. QB6 Star catalogs
- Cf. QB870+ Stellar spectroscopy
- 799 Periodicals, societies, congresses, serial publications
- 801 General works, treatises, and textbooks
- 801.6 Popular works
- 801.7 Juvenile works
- 801.8 Addresses, essays, lectures
- 802 Constellation figures. Star names
 - Cf. QB63 Stargazers' guides
- 803 Zodiac
 - Including individual constellations of the zodiac
- 805 Particular stars (not A-Z)
 - Cf. QB823 Particular double and multiple stars
 - Cf. QB837 Particular variable stars
 - Cf. QB883 Spectra of special stars
- 806 Stellar evolution
- 806.5 Starbursts
- 807 Astrometry
 - Cf. QB135 Astronomical photometry
- 808 Structure
- 809 Atmospheres
- Motion
 - Including orbits, velocities, dynamics
- 810 General works
- 811 Proper motion
- 812 Stellar oscillations. Astroseismology
- 813 Parallax and distance
- 814 Masses

Descriptive astronomy

Stars -- Continued

- 815 Magnitudes. Photometric catalogs
- 816 Color
 - Cf. QB829 Color of double stars
- 817 Radiation. Bolometry
- 817.5 Magnetic fields
- 818 Stellar diameters
- 818.5 Stellar collisions
 - Including stellar mergers
- 819 Distribution
 - Including stellar populations
- 820 Extrasolar planets
- Double and multiple stars. Binary systems
 - Cf. QB421 Theory
 - Cf. QB903 Spectroscopy
- 821 General works, treatises, and textbooks
 - Including observations, catalogs
- 823 Particular stars (not A-Z)
- 829 Colors of double stars
- 830 X-ray binaries
- Variable stars. Algol systems
 - Cf. QB895 Spectroscopy
- 833 Periodicals, societies, congresses, serial publications
- 835 General works, treatises, and textbooks
 - Including observations, catalogs
- 835.2 Addresses, essays, lectures
- 836 Magnitude. Photometric catalogs
- 837 Particular stars or clusters (not A-Z)
- 837.5 Cataclysmic variable stars
- 838 Pulsating stars
- 841 Temporary or new stars
- 843.A-Z Other particular types of stars, A-Z
 - 843.A12 A stars
 - 843.A89 Asymptotic giant branch stars
 - 843.B12 B stars
 - 843.B25 Be stars
 - 843.B55 Black holes
 - 843.B57 Blue stragglers
 - 843.B75 Brightest stars
 - 843.B77 Brown dwarfs
 - 843.C6 Cool stars
 - Coronae Borealis stars R see QB843.R12
 - 843.D44 Delta Scuti stars
 - 843.D85 Dwarf novae
 - 843.D9 Dwarf stars
 - 843.E2 Early stars

Descriptive astronomy

Stars

Other particular types of stars, A-Z -- Continued

843.F55	Flare stars
843.L85	Luminous blue variables
843.M16	M stars
843.M3	Magnetic stars
843.N12	N stars
843.N4	Neutron stars
843.O12	O stars
843.P42	Peculiar stars
843.P8	Pulsars
843.R12	R Coronae Borealis stars
843.R17	R Scuti stars
843.R4	Red dwarfs
843.R42	Red giants
843.R72	RR Lyrae stars
843.S53	Shell stars
843.S85	Subgiant stars
843.S9	Supergiant stars
843.S94	Supermassive stars
843.S95	Supernovae
843.S96	Symbiotic stars
843.T12	T Tauri stars
843.W5	White dwarfs
843.W6	Wolf-Rayet stars

Clusters and nebulae

Cf. QB891 Spectroscopy

851	General works, treatises, and textbooks Including observations, catalogs
	Clusters
853	General works
853.5	Globular clusters
	Nebulae
855	General works
855.2	Juvenile works
855.5	Planetary nebulae Including proto-planetary nebulae
855.55	Gaseous nebulae Including Herbig-Haro objects
855.9.A-Z	Individual. By name, A-Z
855.9.C7	Crab Nebula
855.9.H67	Horsehead Nebula
855.9.O75	Orion Nebula
	Galaxies
856	Periodicals, societies, congresses, serial publications
857	General works

Descriptive astronomy

Stars

Galaxies -- Continued

- 857.3 Juvenile works
- 857.5.A-Z Special topics, A-Z
- 857.5.B84 Bulges
- Collisions see QB857.5.M47
- 857.5.D37 Data processing
- 857.5.E96 Evolution
- 857.5.E97 Extragalactic distances
- 857.5.G7 Gravitational lenses
 - Including microlensing
- 857.5.H34 Halos
- 857.5.M34 Magnetic fields
- 857.5.M47 Mergers. Collisions
- 857.5.M67 Motion in the line of sight
- Radio galaxies see QB479.55.R34
- 857.5.S87 Surface brightness
- Milky Way galaxy
 - 857.7 General works
 - 857.72 Galactic center
- 858 Dwarf galaxies
- Active galaxies
 - Including active galactic nuclei
- 858.3 General works
- 858.35 BL Lacertae objects
- 858.4 Elliptical galaxies
- 858.42 Spiral galaxies
- 858.5.A-Z Other galaxies. By name, A-Z
- 858.5.M33 Magellanic Clouds
- Clusters of galaxies
 - 858.7 General works
 - 858.8.A-Z Individual. By name, A-Z
 - 858.8.L63 Local Group
 - Cf. QB857.7+ Milky Way
 - 858.8.V57 Virgo Cluster
- 860 Quasars
- Stellar spectroscopy
 - 870 Periodicals, societies, congresses, serial collections
 - 871 General works, treatises, and textbooks
 - 873 Instruments and apparatus
 - 875 Chemical and physical constitution
 - 881 Classification of stars
 - Including classed catalogs
 - 883 Study of special types of spectra
 - Including the spectra of special stars
 - 891 Nebulae and clusters

Descriptive astronomy

Stars

Stellar spectroscopy -- Continued

895

Variables and new stars

901

Motion in the line of sight. Radial velocities

903

Spectroscopic observations on double stars

Cosmogony. Cosmology

Including nebular hypothesis, meteoritic hypothesis, glacial
cosmogony

Cf. BD493+ Speculative philosophy

Cf. QB503 Origin of solar system

980

Periodicals, societies, congresses, serial publications

980.5

Dictionaries and encyclopedias

981

General works, treatises, and textbooks

982

Popular works

983

Juvenile works

985

Addresses, essays, lectures

991.A-Z

Special topics, A-Z

991.B54

Big bang theory

991.C64

Cosmic background radiation

Including cosmic ripples

991.C65

Cosmic rotation

991.C658

Cosmological constants

991.C66

Cosmological distances

991.C87

Curvature cosmology

991.C92

Cyclic universe theory

991.E53

End of the universe

991.E94

Expanding universe

991.G73

Great Attractor

991.I54

Inflationary universe

991.L37

Large scale structure

991.N34

Naked singularities

991.P45

Phase transformations

991.Q36

Quantum cosmology

991.S73

Statistical methods

991.T67

Topological defects

Physics

Cf. QH505 Biophysics
 Cf. R895+ Medical physics
 Cf. S588.4+ Agricultural physics

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Dictionaries and encyclopedias
- Communication in physics
- 5.3 General works
- 5.35 Information services
- 5.4 Computer network resources
 Including the Internet
- 5.45 Physics literature
- 5.5 Abstracting and indexing
- 5.52 Language. Authorship
- Philosophy. Methodology
- For relativity physics see QC173.5+
 For unified field theories see QC173.68+
- 5.56 Periodicals, societies, congresses, serial publications
- 5.58 Collected works (nonserial)
- 6 General works, treatises, and textbooks
- 6.2 Addresses, essays, lectures
- 6.4.A-Z Special topics, A-Z
- 6.4.A27 Absolute, The
- 6.4.A85 Asian philosophy
- 6.4.C3 Causality
- 6.4.C56 Coherent state
- 6.4.C57 Consciousness
- 6.4.C58 Constraints
- 6.4.C6 Continuity. Continuum
- 6.4.D46 Determinism
 Cf. QC174.17.H4 Heisenberg principle
- 6.4.D5 Dialectical materialism
- 6.4.D8 Dualism
- 6.4.F58 Fluctuations
- 6.4.I34 Identity (Philosophical concept)
- 6.4.P37 Paradox
- 6.4.R42 Reality
- 6.4.R43 Reductionism
- 6.8 Nomenclature, terminology, notation, abbreviations
- History
- 6.9 Periodicals, societies, congresses, serial publications
- 7 General works
- 7.5 Addresses, essays, lectures
- 9.A-Z By region or country, A-Z
- 14 Women in physics. Women physicists
 For biography see QC15+

	Biography
15	Collective
16.A-Z	Individual, A-Z
	e.g.
	Curie, Marie and Pierre see QD22.C8
16.E5	Einstein
16.N7	Newton
16.2	Directories
	Early works
17	1501-1700
19	1701-1800
	Mathematical physics
	For mathematical theory without practical applications see QA401+
	Cf. QC173.96+ Quantum theory
	Cf. TA329+ Engineering mathematics
19.2	Periodicals, societies, congresses, serial publications
19.3	Collected works (nonserial)
	History
19.6	General works
19.7.A-Z	By region or country, A-Z
20	General works, treatises, and textbooks
20.5	Addresses, essays, lectures
20.6	Special aspects of the subject as a whole
20.7.A-Z	Special topics, A-Z
20.7.A34	Adiabatic invariants
20.7.A37	Algebraic geometry
20.7.A4	Algebraic logic
20.7.A5	Analysis
	Cf. QA401+ Analytical methods for physical problems
20.7.A85	Asymptotic theory
20.7.B38	Bayesian statistical decision theory
20.7.B47	Bethe-ansatz technique
20.7.B54	Bifurcation theory
20.7.B58	Bose algebras
20.7.B6	Boundary value problems
20.7.C14	C*-algebras
20.7.C28	Calculus of tensors
20.7.C3	Calculus of variations
20.7.C36	Catastrophes
20.7.C55	Clifford algebras
20.7.C58	Combinatorial analysis
20.7.C6	Correlation
20.7.C63	Coupled problems
20.7.D4	Decomposition method
20.7.D43	Density functionals
20.7.D45	Determinants

Mathematical physics

Special topics, A-Z -- Continued

- 20.7.D47 Difference equations
- 20.7.D5 Differential equations
- 20.7.D516 Differential games
- 20.7.D52 Differential geometry
Including noncommutative differential geometry
- 20.7.D55 Dimensional analysis
- 20.7.E4 Electronic data processing
- 20.7.E48 Embedding theorems
- 20.7.E88 Evolution equations
Cf. QA377.3 Differential equations
- 20.7.F56 Finite element method
- 20.7.F67 Fourier transformations
- 20.7.F73 Fractals
- 20.7.F84 Functional analysis
- 20.7.F85 Functional integration
- 20.7.F87 Functions, Special
- 20.7.G44 Geometry
- 20.7.G55 Global analysis
- 20.7.G7 Graph theory
- 20.7.G76 Group theory
Cf. QC174.17.G7 Group theoretical methods for
quantum mechanical problems
- 20.7.H35 Hamiltonian systems
- 20.7.H63 Homogeneous spaces
- 20.7.H65 Homology and cohomology theories
- 20.7.I33 Idempotents
- 20.7.I58 Integral equations
- 20.7.K47 Kernel functions
- 20.7.K56 Knot polynomials
- 20.7.L54 Lie algebras. Lie-admissible algebras
- 20.7.M24 Manifolds
- 20.7.M27 Mathematical optimization
- 20.7.M3 Matrix theory
Cf. QC174.3+ Matrix mechanics
Cf. QC793.3.M36 Elementary particle physics
- 20.7.M43 Measure theory
Cf. QC174.17.M4 Quantum theory
- 20.7.M53 Microlocal analysis
- 20.7.M65 Monte Carlo method
- 20.7.N58 Nonassociative algebras
- Noncommutative differential geometry see QC20.7.D52
- 20.7.N6 Nonlinear theories
- 20.7.N86 Numerical analysis
- 20.7.O65 Operator algebras
- 20.7.O66 Operator theory

- Mathematical physics
 Special topics, A-Z -- Continued
- 20.7.O75 Orthogonal functions and polynomials
 - 20.7.P23 p-adic analysis
 - 20.7.P3 Padé approximant
 - 20.7.P47 Perturbation
 - 20.7.P67 Potential theory
 - 20.7.P7 Probabilities
 - 20.7.R38 Relational calculus
 - 20.7.R4 Relaxation methods
 - 20.7.R43 Renormalization
 - 20.7.S3 Scattering theory
 - 20.7.S54 Singularities
 - Special functions see QC20.7.F87
 - 20.7.S64 Spectral theory
 - 20.7.S645 Spherical harmonics
 - 20.7.S65 Spinor analysis
 - 20.7.S68 Stability
 - 20.7.S73 Standards
 - 20.7.S8 Stochastic processes
 - Tensor analysis see QC20.7.C28
 - 20.7.T45 Theory of distributions
 - 20.7.T65 Topology
 - 20.7.T73 Transport theory
 - 20.7.V4 Vector analysis
 - 20.7.W38 Wavelets
 - 20.7.W53 WKB approximation
 - 20.7.Z47 Zeta functions
- Study and teaching. Research
- 20.8 General works
 - 20.815.A-Z By region or country, A-Z
 - 20.82 Problems, exercises, examinations
 - 20.85 Handbooks, tables, formulas, etc.
- General works, treatises, and advanced textbooks
- 21 1801-1969
 - 21.2 1970-2000
 - 21.3 2001-
- Elementary textbooks
- 23 To 2000
 - 23.2 2001-
- 24 Pictorial works and atlases
 - 24.5 Popular works
 - 25 Juvenile works
 - 26 Recreations, home experiments, etc.
 - 27 Anecdotes, facetiae, satire, etc.
- Addresses, essays, lectures see QC71
- 28 Special aspects of the subject as a whole

- 29 Physics as a profession. Vocational guidance
Study and teaching. Research
For programmed texts see QC21+
- 30 General works
- 31 Outlines, syllabi
- 32 Problems, exercises, examinations
- 33 Experiments
Cf. QC26 Home experiments
- Laboratory manuals
- Elementary
- 35 General works
- 36 Laboratory blanks
- 37 Advanced
- 39 Physical measurements (General)
Including theory and methods
Cf. QC81+ Weights and measures
Cf. T50 Technical measurement
- 39.5 Juvenile works
- 41 Laboratory technique
By region or country
United States
- 44 General works
- 45.A-Z By region or state, A-Z
Subarrange each state by Table Q7
- 47.A-Z Other regions or countries, A-Z
Subarrange each country by Table Q7
- 48 Developing countries
- Laboratories
Cf. QC100.A2+ Standardizing bureaus
Cf. QC541.A1+ Electric laboratories
- 51.A1 General works
- 51.A3-Z By region or country, A-Z
Subarrange each country by Table Q6
- 52 Data processing
- Instruments and apparatus (General)
For instruments of special fields, see the field
Cf. QC100.5+ Weights and measures
Cf. QC101+ Instruments for measurement of length, area,
weight, etc.
Cf. QC370.5+ Optical instruments
Cf. QC875.5+ Meteorological instruments
- 53 General works
- 55 Juvenile works
- Museums. Exhibitions
- 60.A1 General works
- 60.A2-Z By region or country, A-Z
Subarrange each country by Table Q5

- 61 Handbooks, tables, formulas, etc.
 71 Addresses, essays, lectures
 Force and energy (General)
 Cf. QC310.15+ Thermodynamics
 Philosophy see QA843+
- 72 History
 73 General works, treatises, and textbooks
 73.4 Juvenile works
 73.6 Study and teaching. Research
 73.8.A-Z Special topics, A-Z
 73.8.C6 Conservation of energy
 73.8.C65 Correlation of forces
 73.8.E53 Energy transfer
 73.8.M4 Mechanical advantage
 73.8.W65 Work
 75 Miscellany and curiosa
 Weights and measures. Units of measurement
 Class here works on the means of expressing quantities of length,
 area, volume, capacity, and mass (or weight) in terms of
 standard units. For works on units used in the measurement
 of other quantities, including velocity, pressure, energy,
 temperature, see the particular field of application
 Cf. BS680.W4 Weights and measures in the Bible
 Cf. HF5711+ Tables of weights and measures (Business
 mathematics)
 Cf. QA465 Measurement (Mathematics)
 Cf. QB214 Time measuring instruments
 Cf. QC535+ Electric measurements
- 81 Periodicals, societies, congresses, serial publications
 For governmental standardizing bureaus, including serial
 publications issued by them see QC100.A3+
- Museums. Exhibitions
 81.5.A1 General works
 81.5.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 82 Dictionaries and encyclopedias
 History
 83 General works
 84 Ancient
 85 Medieval
 86 Modern
 87 Early works through 1800
 88 General works, treatises, and advanced textbooks
 Including works with an alphabetical arrangement of countries
- 89.A-Z By region or country, A-Z
 Subarrange each country by Table Q4
- 90 Elementary textbooks

Weights and measures -- Continued

- 90.5 Popular works
- 90.6 Juvenile works
- Special systems
- Metric system. International system (SI)
- Cf. T50.5 Metric system in industry
- 90.8 Periodicals, societies, congresses, serial publications
- 91 General works, treatises, and textbooks
- 92.A-Z By region or country, A-Z
- Subarrange each country by Table Q4
- 92.2 Popular works
- 92.5 Juvenile works
- 92.6 Addresses, essays, lectures
- 93 Study and teaching. Research
- 94 Conversion tables
- International system see QC90.8+
- 96 Other systems (not A-Z)
- 97 Study and teaching. Research
- 99 Miscellany and curiosa
- Including pyramid metrology
- Standards (General). Governmental standardizing bureaus
- 100.A2 General works, treatises, and textbooks
- 100.A3-Z By region or country, A-Z
- Measuring instruments (General)
- 100.5 General works
- 100.8 Catalogs
- Measurement of special quantities
- Including instruments used in measurement
- Length
- 101 Standards
- 102 Measurement and instruments
- 102.5 Thickness
- Including micrometers
- 103 Angles
- Including goniometers
- Cf. QA482 Plane geometry
- Cf. TA603 Surveying
- 104 Volume
- 104.5 Area measurement
- Mass and weight
- 105 Standards
- Measurement
- Cf. QC172+ Atomic mass
- Cf. QC454.M3 Mass spectrometry
- 106 General works
- 107 Weighing instruments, balances, scales, etc.
- Cf. TS410 Manufactures

- Weights and measures
 - Measurement of special quantities
 - Mass and weight -- Continued
 - Density and specific gravity
 - 111 General works
 - 114 Tables, etc.
- Descriptive and experimental mechanics
 - For theoretical and analytical mechanics see QA801+
 - Cf. QC71.82+ Force and energy (General)
 - Cf. QC176+ Solid state physics
 - Cf. TA349+ Applied mechanics
 - 120 Periodicals, societies, congresses, serial publications
 - 121 Collected works (nonserial)
 - 121.6 Dictionaries and encyclopedias
 - 121.8 Nomenclature, terminology, notation, abbreviations
 - History
 - For general history of mechanics see QA802
 - 122 General works
 - 122.2.A-Z By region or country, A-Z
 - 123 Early works through 1800
 - General works, treatises, and advanced textbooks
 - 125 1801-1969
 - 125.2 1970-
 - 127 Elementary textbooks
 - 127.3 Popular works
 - 127.4 Juvenile works
 - 127.6 Addresses, essays, lectures
 - Study and teaching. Research
 - 128 General works
 - 129 Problems, exercises, examinations
 - 129.5 Laboratory manuals
 - 131 Special aspects of the subject as a whole
 - Dynamics. Motion
 - Cf. QA843+ Analytic mechanics
 - 133 General works, treatises, and textbooks
 - 133.5 Juvenile works
 - 135 Kinematics
 - 136 Vibrations
 - Cf. QA865+ Analytic mechanics (Dynamics)
 - Cf. QA935+ Vibrations of elastic bodies
 - Cf. QC231 Sound
 - Cf. TA355 Engineering
 - 137 Inertia
 - Including Mach's principle
 - Velocity. Speed
 - Cf. QC233 Velocity of sound
 - Cf. QC407 Velocity of light

Descriptive and experimental mechanics

Dynamics. Motion

Velocity. Speed -- Continued

137.5 General works, treatises, and textbooks

137.52 Juvenile works

Fluids. Fluid mechanics

Including liquids

Cf. QA901+ Analytic mechanics

Cf. TA357+ Applied fluid mechanics

138 Periodicals, societies, congresses, serial publications

139 Dictionaries and encyclopedias

140 Nomenclature, terminology, notation, abbreviations

141 History

142 Early works through 1500

General works, treatises, and textbooks

143 1501-1700

144 1701-1800

145 1801-1969

145.2 1970-

145.24 Juvenile works

145.26 Addresses, essays, lectures

145.28 Study and teaching

145.3 Handbooks, tables, formulas, etc.

145.4.A-Z Special properties of liquids, A-Z

145.4.A25 Acoustic properties

145.4.C6 Compressibility

145.4.D5 Diffusion

145.4.E45 Electric properties

145.4.E9 Expansion

145.4.M27 Magnetic properties

145.4.O6 Optical properties

145.4.P73 Pressure

145.4.T5 Thermal properties

145.4.V5 Viscosity

145.45.A-Z Special liquefied gases, A-Z

145.45.A75 Argon

145.45.F5 Fluorine

145.45.H4 Helium

145.45.H9 Hydrogen

145.48.A-Z Special liquids, A-Z

145.48.P6 Polywater

145.48.S9 Supercooled liquids

Hydrostatics. Floating bodies

Cf. QC183 Surface tension

Cf. TC165+ Technical hydraulics

Cf. TJ836+ Fluid power technology

145.5 Periodicals, societies, congresses, serial publications

Descriptive and experimental mechanics

Fluids. Fluid mechanics

Hydrostatics. Floating bodies -- Continued

- 145.7 Collected works (nonserial)
- 145.8 Dictionaries and encyclopedias
- 145.9 Nomenclature, terminology, notation, abbreviations
- 147 General works, treatises, and textbooks
- 147.5 Juvenile works
- 148 Addresses, essays, lectures
- Study and teaching. Research
 - 148.2 General works
 - 148.24 Laboratory manuals
 - 148.4 Instruments and apparatus
 - Including hydrometers, flowmeters
- Fluid dynamics. Hydrodynamics
 - Cf. QA911+ Analytic mechanics
 - Cf. TC171+ Technical hydraulics
 - Cf. TJ266+ Turbine engineering
 - Cf. TP156.F6 Chemical engineering
- 150 Periodicals, societies, congresses, serial publications
- 151 General works, treatises, and textbooks
- 151.2 Juvenile works
- 151.5 Addresses, essays, lectures
- 151.7 Special aspects of the subject as a whole
- 152 Incompressible fluids
- 152.5 Compressible fluids
- 153 Nonhomogeneous fluids
- 154 Viscous fluids
 - Cf. QA929 Analytic mechanics
 - Cf. QC189.5+ Rheology, Non-Newtonian fluids
- 155 Flows in porous media
- 155.5 Flows in viscous media
- 155.7 Flows in continuous media
 - Cf. QA808.2 Analytic mechanics
- 156 Drops. Splashes
 - Cf. QC183 Capillarity
 - Cf. TP159.A85 Atomizers
- Quantum and relativistic hydrodynamics see QA912
- Magnetohydrodynamics (Analytic mechanics) see QA920
- Magnetohydrodynamics (Plasma physics) see
 - QC718.5.M36
- 157 Waves
 - Cf. QA927 Analytic mechanics
 - Cf. QC718.5.W3 Plasma physics
- 158 Jets and cavities
- 159 Vortex flows
 - Cf. QA925 Analytic mechanics

Descriptive and experimental mechanics

Fluids. Fluid mechanics -- Continued

Liquids see QC138+

Gases. Pneumatics

Including air

Cf. QD531 Manipulation of gases, etc.

Cf. QD535 Liquefaction of gases

- 161 General works, treatises and textbooks
- 161.2 Juvenile works
- 161.5 Handbooks, tables, formulas, etc.
- Special properties of gases
- 162 Adsorption and absorption
Including occlusion
- 163 Compressibility
- 163.5 Diffusion
- 164 Expansion
- 164.5 High temperatures
- Occlusion see QC162
- 165 Pressure
Including manometers, etc.
- 165.3 Optical properties
- 165.5 Thermal properties
- Vacuum
Including vacuum production, etc.
Cf. TJ940+ Vacuum technology
- 166 General works
- 166.5 Ultrahigh vacuum
- 167 Viscosity
- Gas dynamics. Motion of gases
Including thermodynamic aspects
Cf. QA930 Analytic mechanics
Cf. QC717+ Ion flow dynamics
Cf. TJ1025+ Mechanical engineering
Cf. TL570+ Aerodynamics
- 167.5 Periodicals, societies, congresses, serial publications
- 168 General works, treatises, and textbooks
- 168.2 Addresses, essays, lectures
- Study and teaching. Research
- 168.4 General works
- 168.6 Problems, exercises, etc.
- 168.7 Technique
- 168.8 Handbooks, tables, formulas, etc.
- 168.85.A-Z Special topics, A-Z
- 168.85.D46 Detonation waves
- 168.85.M53 Migration
- 168.85.R45 Relaxation
- 168.85.S45 Shock waves

- Descriptive and experimental mechanics
 Fluids. Fluid mechanics
 Gas dynamics. Motion of gases -- Continued
 168.86 Rarefied gas dynamics
 Atomic physics. Constitution and properties of matter
 Including molecular physics
 Cf. QC770+ Nuclear physics
 Cf. QD450+ Physical chemistry
 Cf. TA401+ Materials of engineering and construction
 170 Periodicals, societies, congresses, serial publications
 General works, treatises, and textbooks
 171 Through 1969
 171.2 1970-
 Constitution of matter and antimatter (General)
 Cf. QC671 Aberration
 Cf. QC793+ Elementary particle physics
 172 Periodicals, societies, congresses, serial publications
 172.2 Collected works (nonserial)
 173 General works, treatises, and textbooks
 173.16 Juvenile works
 173.18 Addresses, essays, lectures
 173.25 Study and teaching. Research
 Properties of matter and antimatter (General)
 Cf. QC182+ Special properties of matter and antimatter
 173.28 Periodicals, societies, congresses, serial publications
 173.3 General works, treatises, and textbooks
 173.36 Juvenile works
 173.38 Addresses, essays, lectures
 173.39 Special aspects of the subject as a whole
 173.397 Handbooks, tables, formulas, etc.
 173.4.A-Z Special topics, A-Z
 173.4.A82 Atom cooling
 173.4.A85 Atomic beams
 Atomic clusters see QC173.4.M48
 173.4.A87 Atomic structure
 Clusters, Atomic see QC173.4.M48
 173.4.C63 Composite materials
 (173.4.C65) Condensed matter
 see QC173.45+
 173.4.C74 Critical phenomena
 173.4.E65 Equations of state
 173.4.G53 Glass
 173.4.H95 Hyperfine structure
 173.4.I53 Inhomogeneous materials
 173.4.I57 Interfaces
 173.4.L55 Liquid crystals
 Cf. QD923 Crystallography

Atomic physics. Constitution and properties of matter

Properties of matter and antimatter (General)

Special topics, A-Z -- Continued

- 173.4.L56 Liquid metals
Cf. TA463 Engineering
- 173.4.M48 Microclusters
Including atomic clusters and molecular clusters
Cf. QC793.3.S8 Nuclear cluster theory
- 173.4.M5 Microphysics
- 173.4.M65 Molecular beams
- Molecular clusters see QC173.4.M48
- 173.4.M67 Momentum distributions
- 173.4.M85 Multiple scattering
- 173.4.O73 Order-disorder models
- 173.4.P64 Polarizability
- 173.4.P65 Polymers
Class here works on physical properties
For general works on chemical and physical
properties see QD380+
- 173.4.P67 Porous materials
- 173.4.Q36 Quasicrystals
Cf. QD926 Crystallography
- 173.4.Q37 Quasimolecules
- 173.4.R44 Relaxation phenomena
- 173.4.S94 Surfaces
- 173.4.T48 Thomas-Fermi theory
- Condensed matter physics
- 173.45 Periodicals, societies, congresses, serial publications
- 173.452 Directories
- 173.454 General works, treatises, and advanced textbooks
- 173.456 Study and teaching. Research
- 173.457.A-Z Special methods, A-Z
- 173.457.C64 Computer simulation
- 173.457.S7 Statistical methods
- 173.458.A-Z Special topics, A-Z
- 173.458.C78 Crystalline interfaces
- 173.458.D43 Defects
- 173.458.E43 Electric properties
- 173.458.E53 Energy dissipation
- 173.458.F72 Fractals
- 173.458.M33 Magnetic properties
- 173.458.M38 Mathematics
- 173.458.O66 Optical properties
- 173.458.R33 Radiation effects
- 173.458.S62 Soft condensed matter
- 173.458.S64 Spectra
- 173.458.S75 Structure

- Atomic physics. Constitution and properties of matter
 Properties of matter and antimatter (General)
 Condensed matter physics
 Special topics, A-Z -- Continued
- 173.458.S87 Surfaces
 173.458.T48 Thermal properties
 173.458.U54 Universalities
- Relativity physics
 Cf. QA808.5 Relativistic mechanics
 Cf. QC175.3+ Kinetic theory of liquids
- 173.5 Periodicals, societies, congresses, serial publications
 173.51 Collected works (nonserial)
 173.52 History
 173.55 General works, treatises, and textbooks
 173.57 Popular works
 173.575 Juvenile works
 173.58 Addresses, essays, lectures
 173.585 Special aspects of the subject as a whole
 Including criticism of relativity
- 173.59.A-Z Special topics, A-Z
 173.59.E68 Equations of motion
 173.59.G44 Geometrodynamics
 173.59.M3 Mathematical methods
 173.59.S56 Simultaneity
 173.59.S65 Space and time
 173.59.T5 Time dilatation
 173.59.T53 Time reversal
- Special types of relativity theories
 173.6 General
 173.65 Special
- Field theories. Unified field theories
 Cf. QA808.2 Continuum mechanics
 Cf. QC174.45+ Quantum field theory
 Cf. QC178 Theories of gravitation
 Cf. QC793.3.F5 Elementary particle physics
- 173.68 Periodicals, societies, congresses, serial publications
 173.7 General works, treatises, and textbooks
 173.72 Addresses, essays, lectures
 173.75.A-Z Special topics, A-Z
 173.75.T5 Thermodynamics
 173.75.T85 Twistor theory
- Quantum theory. Quantum mechanics
 Cf. QB991.Q36 Cosmology
 Cf. QC446.15+ Quantum optics
- 173.96 Periodicals, societies, congresses, serial publications
 173.97 Collected works (nonserial)
 173.975 Dictionaries and encyclopedias

- Atomic physics. Constitution and properties of matter
 Quantum theory. Quantum mechanics -- Continued
- 173.98 History
 - 174 Early works through 1926
 - Class here works on quantum theory prior to the Bohr atom
 - 174.12 General works, treatises, and textbooks
 - Class here works on quantum theory after 1926
 - 174.123 Popular works
 - 174.125 Addresses, essays, lectures
 - 174.13 Special aspects of the subject as a whole
 - Study and teaching. Research
 - 174.14 General works
 - 174.15 Problems, exercises, examinations
 - 174.17.A-Z Special topics, A-Z
 - 174.17.A53 Angular momentum
 - 174.17.A66 Approximation theory
 - 174.17.B45 Bell's theorem
 - 174.17.B6 Bound states
 - 174.17.C45 Chaos
 - 174.17.C6 Commutation relations
 - 174.17.C63 Complementarity
 - Constant curvature, Spaces of see QC174.17.S63
 - 174.17.C65 Correspondence principle
 - 174.17.C67 Coulomb potential
 - Curvature, Spaces of constant see QC174.17.S63
 - 174.17.D37 Data processing
 - 174.17.D44 Density matrices
 - 174.17.D54 Differential equations, Partial
 - 174.17.E58 Entanglement
 - 174.17.F3 Factorization method
 - Few-body problem see QC174.17.P7
 - 174.17.F45 Feynman integrals
 - 174.17.F54 Finite element method
 - 174.17.F86 Functionals
 - 174.17.G46 Geometric quantization
 - 174.17.G5 Gibbs' paradox
 - 174.17.G56 Gleason measures
 - 174.17.G57 Global analysis
 - 174.17.G68 Green's functions
 - 174.17.G7 Group theory
 - Cf. QA174+ Algebra
 - 174.17.H3 Hamiltonian operator
 - 174.17.H4 Heisenberg principle
 - Cf. QC6.4.D46 Determinism
 - 174.17.H55 Hilbert space
 - 174.17.I58 Integral equations

Atomic physics. Constitution and properties of matter

Quantum theory. Quantum mechanics

Special topics, A-Z -- Continued

- 174.17.I76 Irreversible processes
Cf. QC318.17 Thermodynamics
- Many-body problem see QC174.17.P7
- 174.17.M33 Markov processes
- 174.17.M35 Mathematical logic. Quantum logic
- 174.17.M4 Measure theory. Quantum measure theory
- 174.17.O63 Operator theory
- Partial differential equations see QC174.17.D54
- 174.17.P27 Path integrals
- 174.17.P3 Pauli exclusion principle
- 174.17.P45 Perturbation
- 174.17.P68 Probabilities
- 174.17.P7 Problem of many bodies
Including few-body problem
- Quantum computers see QA76.889
- 174.17.Q33 Quantum interference
- Quantum logic see QC174.17.M35
- 174.17.Q35 Quantum maps
- Quantum measure theory see QC174.17.M4
- 174.17.Q38 Quantum teleportation
- 174.17.Q385 Quantum trajectories
- 174.17.R32 Racah algebra
- 174.17.R37 Rate processes
- 174.17.R46 Renormalization theory
- 174.17.R65 Rotation groups
- 174.17.S3 Schrödinger operator
- 174.17.S32 Schwinger action principle
- 174.17.S36 Semigroups
- 174.17.S6 Sommerfeld polynomial method
- 174.17.S63 Spaces of constant curvature
- 174.17.S76 Stochastic processes
- 174.17.S77 Sum rules
- Supergravity see QC174.17.S9
- 174.17.S78 Superposition
- 174.17.S9 Symmetry. Invariance
Including supergravity
Cf. QC793.3.S9 Elementary particle physics
- 174.17.T67 Transactional interpretation
- Teleportation see QC174.17.Q38
- 174.17.T7 Transformations
- 174.17.V35 Variational principles
- 174.17.V4 Vector analysis
- Wave mechanics
Cf. QC793.3.W3 Elementary particle physics

Atomic physics. Constitution and properties of matter

Quantum theory. Quantum mechanics

Wave mechanics -- Continued

- 174.2.A1 Periodicals, societies, congresses, serial publications
 174.2.A2 Collected works (nonserial)
 174.2.A6-Z General works, treatises, and textbooks
 174.22 Addresses, essays, lectures
 174.23 Special aspects of the subject as a whole
 174.24.A-Z Special types of wave mechanics, A-Z
 174.24.G4 Geometrical
 174.24.N6 Nonlinear
 174.24.N64 Nonrelativistic
 174.24.R4 Relativistic
 174.26.A-Z Special topics, A-Z
 Atomic and molecular orbitals see QD461
 174.26.A8 Atomic transition probabilities
 174.26.B58 Bivectors
 Spinor analysis see QA433
 174.26.W28 Wave equations
 Including solitons
 174.26.W3 Wave functions
- Matrix mechanics
 Cf. QC793.3.M36 Elementary particle physics
 174.3.A1 Periodicals, societies, congresses, serial publications
 174.3.A6-Z General works, treatises, and textbooks
 174.32 Handbooks, tables, formulas, etc.
 174.35.A-Z Special theories, A-Z
 174.35.R2 R-matrix theory
 174.35.S2 S-matrix theory
- Quantum statistics
 Cf. QC793.3.S77 Statistical mechanics of elementary particles
 174.4.A1 Periodicals, societies, congresses, serial publications
 174.4.A2 Collected works (nonserial)
 174.4.A6-Z General works, treatises, and textbooks
 174.42 Addresses, essays, lectures
 174.43 Special aspects of the subject as a whole
- Quantum field theory
 Cf. QC679+ Quantum electrodynamics
 Cf. QC793.3.M36 Matrix theories of elementary particles
 174.45.A1 Periodicals, societies, congresses, serial publications
 174.45.A2 Collected works (nonserial)
 174.45.A6-Z General works, treatises, and textbooks
 174.46 Addresses, essays, lectures
 174.52.A-Z Special topics, A-Z

Atomic physics. Constitution and properties of matter

Quantum theory. Quantum mechanics

Quantum field theory

Special topics, A-Z -- Continued

174.52.A43

Algebra of currents

Cf. QC793.3.A4 Elementary particle physics

174.52.C66

Conformal invariants

174.52.D43

Degree of freedom

174.52.F8

Functional analysis

174.52.K56

Knot theory

174.52.L6

Lorentz transformations

174.52.O6

Operator theory

174.52.P37

Path integrals

174.52.S32

Scattering

174.52.S94

Symplectic manifolds

174.52.V33

Vacuum

174.52.Y36

Yang-Baxter equation

174.52.Y37

Yang-Mills theory

174.52.Z47

Zero-point field

Statistical physics

Including statistical mechanics and dynamics

Cf. QC311.5 Statistical thermodynamics

Cf. QC793.3.S77 Elementary particle physics

174.7

Periodicals, societies, congresses, serial publications

174.8

General works, treatises, and textbooks

174.82

Addresses, essays, lectures

174.84

Special aspects of the subject as a whole

Study and teaching. Research

174.842

General works

174.844

Problems, exercises, examinations

174.85.A-Z

Special topics, A-Z

174.85.E88

Estimation theory

174.85.F47

Fermi liquid theory

174.85.H35

Hamiltonian systems

174.85.I8

Ising model

174.85.L38

Lattice theory

174.85.M43

Mean field theory

174.85.M64

Monte Carlo method

174.85.O6

Open systems

Cf. QC318.O63 Thermodynamics

174.85.P45

Percolation

174.85.P48

Phase space

Phase transformations see QC175.16.P5

174.85.P76

Probabilities

174.85.Q83

Quantum entropy

Cf. QC318.E57 Entropy (Thermodynamics)

174.85.R36

Random fields

Atomic physics. Constitution and properties of matter

Statistical physics

Special topics, A-Z -- Continued

174.85.R364

Random matrices

174.85.R37

Random walks

174.85.S34

Scaling

174.85.S46

Set theory

174.85.W85

Wulff construction

174.86.A-Z

Special types of statistical mechanics, A-Z

174.86.C6

Classical

174.86.N65

Nonequilibrium

174.9

Kinetic theory of matter

Kinetic theory of gases

Cf. QC702.5 Ionized gases

175.A1

Periodicals, societies, congresses, serial publications

175.A6-Z

General works, treatises, and textbooks

175.13

Special aspects of the subject as a whole

175.15

Study and teaching. Research

175.16.A-Z

Special topics, A-Z

175.16.B6

Boltzmann's distribution law

175.16.B65

Bose-Einstein gas

175.16.C6

Condensed gases

175.16.E6

Electron gas

Joule-Thomson effect see QC318.J6

175.16.M6

Molecules

175.16.P5

Phase transformations

175.16.R3

Rarefied gases

Transport theory

Cf. QC176.8.E9 Excitons

Cf. QC793.3.T7 Transport theory of elementary particles

Cf. QC809.E6 Energy budget (Geophysics)

175.2.A1

Periodicals, societies, congresses, serial publications

175.2.A6-Z

General works, treatises, and textbooks

175.23

Addresses, essays, lectures

175.25.A-Z

Special topics, A-Z

175.25.C6

Collision integrals

175.25.I6

Invariant imbedding

175.25.L5

Linear transport theory

175.25.R3

Radiative transfer

175.25.S4

Second sound

175.25.S8

Stochastic processes

Kinetic theory of liquids

175.3

General works, treatises, and textbooks

175.32

Addresses, essays, lectures

175.35

Special aspects of the subject as a whole

175.36.A-Z

Special topics, A-Z

Atomic physics. Constitution and properties of matter

Statistical physics

Kinetic theory of liquids

Special topics, A-Z -- Continued

175.36.R4

Relativity

Superfluid physics

Cf. QC611.9+ Superconductivity

175.4.A1

Periodicals, societies, congresses, serial publications

175.4.A6-Z

General works, treatises, and textbooks

175.45

Addresses, essays, lectures

175.47.A-Z

Special topics, A-Z

175.47.B65

Bose-Einstein condensation

Solids. Solid state physics

Class here works on solids, including works that also deal in part with crystals.

For works that deal exclusively with crystals see QD901+

Cf. QD478 Solid state chemistry

Cf. TN689+ Physical metallurgy

176.A1

Periodicals, societies, congresses, serial publications

176.A3

Dictionaries and encyclopedias

176.A6-Z

General works, treatises, and textbooks

176.2

Addresses, essays, lectures

176.3

Juvenile works

Study and teaching. Research

176.5

General works

176.515

Problems, exercises, examinations

176.52.A-Z

By region or country, A-Z

176.8.A-Z

Special topics, A-Z

176.8.A3

Acoustic properties

Cf. TA418.84 Engineering materials

176.8.A35

Adhesion

176.8.A44

Amorphous substances

176.8.A54

Anderson model

176.8.A6

Annealing

176.8.C45

Channeling

176.8.C6

Compressibility

176.8.D44

Defects

176.8.D5

Diffusion

Elastic properties see QC191

176.8.E35

Electric properties

176.8.E4

Electronic states

176.8.E9

Excitons

176.8.E94

Expansion

176.8.F4

Fermi surface

176.8.F74

Free electron theory of metals

Hole burning, Optical see QC176.8.O58

176.8.H66

Hopping conduction

Atomic physics. Constitution and properties of matter

Solids. Solid state physics

Special topics, A-Z -- Continued

- 176.8.L3 Lattice dynamics
 - Cf. QD921+ Crystal structure
 - 176.8.M3 Magnetic properties
 - 176.8.M34 Magnetron sputtering
 - 176.8.M46 Mesoscopic phenomena
 - 176.8.M48 Metal-insulator transitions
 - 176.8.M5 Micromechanics
 - 176.8.N35 Nanostructures
 - Noncrystalline solids see QC176.8.A44
 - 176.8.N65 Nonmetallic solids
 - 176.8.O58 Optical hole burning
 - 176.8.O6 Optical properties
 - 176.8.P45 Phase transformations
 - 176.8.P5 Phonons
 - 176.8.P54 Plasma effects
 - 176.8.P55 Plasmons
 - 176.8.P6 Polaritons
 - 176.8.P62 Polarons
 - 176.8.Q35 Quantum wells
 - 176.8.R3 Radiation effects
 - 176.8.R35 Rare gas solids
 - 176.8.S68 Spin glasses
 - 176.8.S72 Sputtering
 - Sputtering, Magnetron see QC176.8.M34
 - 176.8.S8 Surface properties
 - Cf. QD506+ Surface chemistry
 - Cf. TA418.7+ Surface technology
 - 176.8.T4 Thermal properties
 - Cf. QC295 Specific heat
 - Cf. TA418.52+ Engineering materials
 - 176.8.T8 Tunneling
 - 176.8.V34 Valence fluctuations
 - 176.8.W3 Wave propagation
- Thin films
- 176.82 Periodicals, societies, congresses, serial publications
 - 176.825 Collected works (nonserial)
 - 176.83 General works, treatises, and textbooks
 - 176.835 Addresses, essays, lectures
 - 176.84.A-Z Special topics, A-Z
 - 176.84.D54 Diffusion
 - 176.84.E5 Electric properties
 - 176.84.M3 Magnetic properties
 - 176.84.O7 Optical properties
 - 176.84.R3 Radiation effects

Atomic physics. Constitution and properties of matter

Solids. Solid state physics

Thin films

Special topics, A-Z -- Continued

176.84.S49

Size effects

176.84.S93

Surface properties

176.9.A-Z

Special thin film substances and types, A-Z

176.9.M84

Multilayered

176.9.N64

Nonmetallic

176.9.O73

Organic

176.9.P64

Polycrystalline

176.9.R37

Rare earths

176.95.A-Z

Special substances, A-Z

176.95.I25

Ice

Cf. QC926.3+ Snow

177

Theories of ether

178

Theories of gravitation

Including antigravity, quantum gravity

179

Gravitational waves. Gravitational radiation

Special properties of matter and antimatter

182

Absorption and adsorption

Cf. QC162 Adsorption and absorption of gases

183

Capillarity

Including surface tension, cohesion

Cf. QA274.75 Brownian motion processes

Cf. QC156 Drops. Splashes

Cf. QD506+ Surface chemistry

184

Brownian motion

185

Diffusion. Transpiration

Cf. QA274.75 Diffusion processes

Cf. QC145.4.D5 Diffusion in liquids

Cf. QC163.5 Diffusion in gases

Cf. QC176.8.D5 Diffusion in solids

Osmosis (Cytology) see QH615

Osmosis (Physical chemistry) see QD543

Osmosis (Plant physiology) see QK871

Viscosity

Cf. QC145.4.V5 Viscosity of liquids

Cf. QC167 Viscosity of gases

189.A1

Periodicals, societies, congresses, serial publications

189.A2

Collected works (nonserial)

189.A6-Z

General works, treatises, and textbooks

189.2

Handbooks, tables, formulas, etc.

- Atomic physics. Constitution and properties of matter
 Special properties of matter and antimatter -- Continued
- Rheology
 Including non-Newtonian liquids
 Cf. QA931+ Plasticity (Analytic mechanics)
 Cf. TA418.14+ Plastic properties of materials
 Cf. TP156.R45 Chemical engineering
- 189.5.A1 Periodicals, societies, congresses, serial publications
 189.5.A2 Collected works (nonserial)
 189.5.A6-Z General works, treatises, and textbooks
 189.55.A-Z Special topics, A-Z
 189.55.S58 Slit die rheometers
 189.8 Thixotropy
 191 Elastic properties of solids
 Cf. QA931+ Analytic mechanics
 Cf. QD933 Crystallography
 Cf. TA418+ Mechanical properties of materials
- 191.5.A-Z Particular solids and special topics, A-Z
 191.5.M48 Metals
 191.5.S67 Springback
 192 Thermal properties
 193 Deformation
 197 Friction, etc.
 Cf. TA418.72 Friction properties of materials
- Sound, light, and heat as a whole
- 220 General works
 220.5 Acoustooptics
- Acoustics. Sound
 Cf. ML3805 Music acoustics
 Cf. NA2800 Architectural acoustics
 Cf. QC176.8.A3 Acoustical properties of solids
 Cf. QP460+ Bioacoustics
 Cf. TA365+ Acoustics in engineering
 Cf. TA418.84 Acoustical properties of materials
 Cf. TH1725 Soundproof construction
 Cf. TK5981+ Electroacoustics
- 221 Periodicals, societies, congresses, serial publications
 221.5 Dictionaries and encyclopedias
 221.7 History
 222 Early works through 1800
 223 Mathematical theory
 General works, treatises, and advanced textbooks
 225 1801-1969
 225.15 1970-
 225.2 Elementary textbooks
 225.3 Popular works
 225.5 Juvenile works

- Acoustics. Sound -- Continued
- 225.6 Addresses, essays, lectures
- 225.7 Special aspects of the subject as a whole
- Study and teaching. Research
- 226 General works
- 226.6 Experiments
- 227 Laboratory manuals
- Laboratories
- 228.A1 General works
- 228.A3-Z By region or country, A-Z
Subarrange each country by Table Q6
- 228.2 Technique
- 228.3 Instruments and apparatus
- 228.8 Handbooks, tables, formulas, etc.
- 229 Miscellany and curiosa
- Special topics
- 231 Kinematics of vibrations and wave motion
- 233 Propagation of sound
Including velocity, reflection, transmission
- Vibrations
- 235 Gases in tubes, etc. Resonance
- 241 Strings, rods, membranes, plates, tuning forks
- Underwater acoustics
Cf. TK5103.52 Acoustical telecommunication systems
- 242 Periodicals, societies, congresses, serial publications
- 242.2 General works, treatises, and textbooks
- 242.25 Addresses, essays, lectures
- 242.4 Instruments and apparatus
Cf. TK5987 Hydrophone design and construction
- 242.5.A-Z Special topics, A-Z
- 242.5.O23 Ocean tomography
- Sound waves
Cf. TD894 Noise measurement
- 242.8 Periodicals, societies, congresses, serial publications
- 243 General works, treatises, and textbooks
- 243.2 Juvenile works
- 243.3.A-Z Special topics, A-Z
- 243.3.A25 Acoustic streaming
- 243.3.A4 Amplitude
- 243.3.D3 Damping
- 243.3.D53 Diffraction
- 243.3.E5 Energy
- 243.3.P7 Pressure of sound
- 243.3.R3 Radiation pressure
- 243.3.R4 Reverberation. Reverberation time
Cf. NA2800 Architectural acoustics
- 243.3.S3 Scattering

Acoustics. Sound

Special topics

Sound waves

Special topics, A-Z -- Continued

Transmission see QC233

243.5

Infrasonics

244

Ultrasonics

Cf. QC480.2 Sonoluminescence

Cf. TA417.4 Ultrasonic testing

244.2

Nonlinear acoustics

244.5

Acoustic holography

246

Analysis of sounds. By phonograph, etc.

For acoustic phonetics see P221.5

Heat

For thermal properties of solids see QC176.8.T4

Cf. QC220+ Sound, light, and heat as a whole

251

Periodicals, societies, congresses, serial publications

251.4

Collected works (nonserial)

251.6

Dictionaries and encyclopedias

252

History and philosophy

252.2

Nomenclature, terminology, notation, abbreviations

253

Early works through 1800

General works, treatises, and advanced textbooks

254

1801-1969

254.2

1970-

255

Elementary textbooks

256

Juvenile works

257

Addresses, essays, lectures

Study and teaching. Research

For programmed texts see QC254+

261

General works

261.5

Problems, exercises, examinations

263

Experiments

263.5

Laboratory manuals

265

Technique

266

Handbooks, tables, formulas, etc.

267

Miscellany and curiosa

Thermometers. Thermometry

Including temperature measurements and temperature
measuring instruments

Cf. GC177 Oceanographic instruments

270

Periodicals, societies, congresses, serial publications

270.5

Collected works (nonserial)

270.7

Dictionaries and encyclopedias

271

General works, treatises, and textbooks

271.4

Juvenile works

271.5

Addresses, essays, lectures

Heat

Thermometers. Thermometry -- Continued

- 271.6 Special aspects of the subject as a whole
- 271.8.A-Z Special aspects of instrumentation, A-Z
 - 271.8.A95 Automatic control
 - 271.8.C3 Calibration
 - 271.8.T4 Testing
- Special types of thermometers
 - 272 Mercury and other liquids
 - 273 Air and gases
 - 274 Electrical. Resistance thermometers. Thermocouples
 - 275.A-Z Other, A-Z

High temperatures

- 276 General works
- 277 Pyrometers and pyrometry

Low temperatures

- Cf. QD536 Thermochemistry
- Cf. TP480+ Low temperature engineering
- 277.9 Periodicals, societies, congresses, serial publications
- 278 General works, treatises, and textbooks
- 278.2 Juvenile works
- 278.4 Addresses, essays, lectures
- 278.6 Instruments and apparatus

High pressure

- 280 Periodicals, societies, congresses, serial collections
- 280.2 General works, treatises, and textbooks
- 280.4 Study and teaching. Research
- 280.6 Technique
- 280.8 Instruments and apparatus

Relations between pressure, volume, and temperature

- 281 General works
- 281.5.A-Z Special topics, A-Z
 - 281.5.C6 Compressibility
 - 281.5.E9 Expansion
- (282) Solids
 - see QC176+
- (284) Liquids
 - see QC138+
- (286) Gases
 - see QC161+

Calorimeters and calorimetry

- Cf. QD510+ Thermochemistry
- Cf. TP315+ Fuel (Chemical technology)
- 290 Periodicals, societies, congresses, serial publications
- 291 General works, treatises, and textbooks
- 292 Addresses, essays, lectures
- 293.A-Z Special types of calorimeters, A-Z

Heat

Calorimeters and calorimetry

Special types of calorimeters, A-Z -- Continued

- 293.A3 Adiabatic
- 293.F5 Fluid
- 293.F8 Fuel
- 293.G3 Gas
- 293.M5 Microcalorimeter
- 293.R3 Radiation
- 293.V3 Vacuum
- 295 Specific heat of solids and liquids
- 297 Specific heat of gases and vapors

Change of state

- 301 General works, treatises, and textbooks
- 303 Fusion and solidification. Heat of fusion
- 304 Saturated vapors. Vapor pressure. Evaporation. Ebullition.
 - Heat of vaporization
 - Cf. QC915.5+ Meteorology
 - Cf. QD533 Vapor densities
 - Cf. QD535 Liquefaction of gases
- 307 Continuity of state. Critical state. Critical point. Equations of state
- 309 Vaporization of solids. Sublimation
- 310 Heat of formation, solution, wetting, etc.
 - Cf. QD516 Thermochemistry

Thermodynamics

- Cf. QC718.5.T5 Plasma physics
- Cf. QD510+ Chemical thermodynamics
- Cf. TJ255+ Heat engines. Engineering thermodynamics
- Cf. TN689+ Metallurgical thermodynamics
- 310.15 Periodicals, societies, congresses, serial publications
- 310.2 Collected works (nonserial)
- 310.3 Dictionaries and encyclopedias
- 310.5 Nomenclature, terminology, notation, abbreviations
- 311 General works, treatises, and advanced textbooks
- 311.15 Elementary textbooks
- 311.19 Addresses, essays, lectures
- 311.2 Special aspects of the subject as a whole
- Study and teaching. Research
 - 311.25 General works
 - 311.28 Problems, exercises, examinations
 - 311.29 Data processing
 - 311.3 Handbooks, tables, formulas, etc.
 - Special types of thermodynamics
 - 311.5 Statistical
 - 311.7 Relativistic
 - 312 Mechanical equivalent of heat

Heat

Thermodynamics -- Continued

- 318.A-Z Other special topics, A-Z
- 318.E55 Enthalpy
- 318.E57 Entropy
 - Cf. QC174.85.Q83 Quantum entropy
- Equilibrium thermodynamics see QC318.T47
- Force and energy see QC71.82+
- Gases see QC167.5+
- 318.I7 Irreversible processes
 - Including nonequilibrium thermodynamics
 - Cf. QC174.17.I76 Quantum theory
- 318.J6 Joule-Thomson effect
- Low temperatures see QC277.9+
- 318.M3 Mass transfer
- 318.M35 Maxwell's demon
- Nonequilibrium thermodynamics see QC318.I7
- 318.O63 Open systems
- 318.P6 Planck radiation law
- 318.T47 Thermodynamic equilibrium
- 318.T5 Thermodynamic potentials
- 319 Miscellany and curiosa
- Heat transfer
- 319.8 Periodicals, societies, congresses, serial publications
- 319.9 Collected works (nonserial)
- 320 General works, treatises, and textbooks
- 320.14 Juvenile works
- 320.16 Addresses, essays, lectures
- 320.2 Special aspects of the subject as a whole
- 320.22.A-Z Special topics, A-Z
 - 320.22.E4 Electromechanical analogies
 - 320.22.E43 Electronic data processing
 - 320.22.F5 Film boiling
 - 320.22.F56 Finite element method
- Study and teaching. Research
 - 320.3 General works
 - 320.34 Problems, exercises, examinations
 - 320.36 Experiments
 - 320.38 Instruments and apparatus
 - 320.4 Handbooks, tables, formulas, etc.
- Conduction
 - 320.8 Periodicals, societies, congresses, serial publications
 - 321 General works, treatises, and textbooks
 - 321.3 Juvenile works
 - 321.5 Addresses, essays, lectures
 - 321.6 Special aspects of the subject as a whole
 - 321.7.A-Z Special topics, A-Z

Heat

Heat transfer

Conduction

Special topics, A-Z -- Continued

321.7.E4

Electromechanical analogies

321.7.T55

Thermal diffusivity

323

Experiments

Convection

Cf. TH7435+ Heating of buildings

326

Periodicals, societies, congresses, serial publications

327

General works, treatises, and textbooks

327.4

Handbooks, manuals, etc.

328

Addresses, essays, lectures

330

Free convection

330.2

Bénard cells

Radiation and absorption. Laws of cooling

331

General works

Instruments

338

General works, treatises, and textbooks

338.5.A-Z

Special, A-Z

338.5.B6

Bolometers

338.5.P95

Pyroelectric detectors

338.5.R3

Radiometers

338.5.R33

Radiomicrometers

Thermopiles see QC274

Optics. Light

Cf. QC220+ Sound, light, and heat as a whole

Cf. QC494+ Color

Cf. QP474+ Physiological optics

Cf. TA1501+ Applied optics. Lasers

350

Periodicals, societies, congresses, serial publications

351

Collected works (nonserial)

351.2

Dictionaries and encyclopedias

351.5

Nomenclature, terminology, notation, abbreviations

352

History

Biography

352.4

Collective

352.5.A-Z

Individual, A-Z

353

Early works through 1800

General works, treatises, and advanced textbooks

355

1801-1969

355.2

1970-2000

355.3

2001-

358

Elementary textbooks

358.5

Popular works

360

Juvenile works

361

Addresses, essays, lectures

- Optics. Light -- Continued
- 362 Pictorial works and atlases
Study and teaching. Research
- 363 General works
- 363.2 Outlines, syllabi
- 363.4 Problems, exercises, examinations
- 365 Experiments
- 366 Laboratory manuals
- Optical measurements
- 367 General works
- 367.3.A-Z Special topics, A-Z
- 367.3.D46 Densitometry
- 367.3.I58 Interferometry
- 367.3.L37 Laser interferometry
- 367.3.P37 Particle dynamics analysis
- 367.3.P65 Polarimetry
- 367.3.S64 Speckle metrology
- 368 Optical constants
- 369 Handbooks, tables, formulas, etc.
- 369.2 Miscellany and curiosa
- 370 Information theory in optics
- Optical instruments and apparatus (General)
- Cf. QC385+ Lens and mirror systems
- Cf. QC787.O6 Nuclear fission, atomic energy, and radioactivity instruments
- Cf. TS510+ Optical instrument manufacture
- 370.5 Periodicals, societies, congresses, serial publications
- 370.6 Collected works (nonserial)
- 370.7 Dictionaries and encyclopedias
- 371 General works, treatises, and textbooks
- 371.4 Juvenile works
- 371.5 Addresses, essays, lectures
- 372 Special aspects of the subject as a whole
- 372.2.A-Z Special topics, A-Z
- 372.2.D4 Design
- Study and teaching. Research
- 372.22 General works
- 372.24 Laboratory manuals
- 372.6 Handbooks, tables, formulas, etc.
- 373.A-Z Special instruments, A-Z
- 373.B3 Beam splitters
- 373.B55 Binoculars. Field glasses
- 373.C64 Collimators
- Diffraction gratings see QC417
- Field glasses see QC373.B55
- Hand lenses see QC373.M33
- 373.H5 Heliostat

Light. Optics

Optical instruments and apparatus (General)

Special instruments, A-Z

Interference microscopes see QH212.I5

373.K3

Kaleidoscopes

373.L5

Light filters

373.M33

Magnifying glasses. Hand lens

Mass spectrometers see QC454.M3

Microscopes see QH211+

373.O59

Optical detectors

373.P7

Polariscope

Polarizing apparatus see QH217

373.Q2

Q-switching

Reflectometer see QC425.4

Refractometers see QC426.4

373.R4

Reticles

Scanning systems see TK7882.S3

373.S3

Schlieren apparatus

Including schlieren methods

373.S7

Spectrograph. Spectrometer

373.S8

Stereoscope

373.S85

Stroboscopes

Telemeter see TK399

Telescopes see QB88+

Materials for optical instruments, etc.

374

General works

374.5

Diamond

375

Glass

376

Quartz

378

Thin films

378.5

Transparent ceramics

379

Miscellany and curiosa

Geometrical optics

Cf. QC974.5+ Meteorological optics

Cf. TA1659.5+ Micro-optics

Cf. TR220 Photographic optics

380

Early works through 1800

381

General works, treatises, and advanced textbooks

381.2

Elementary textbooks

381.4

Popular works

381.6

Juvenile works

Study and teaching. Research

382

General works

382.2

Problems, exercises, examinations

382.6

Laboratory manuals

383

Mathematical theory

Optics. Light

Geometrical optics -- Continued

Lens and mirror systems

- Cf. QB88+ Astronomical instruments
- Cf. RE961 Ophthalmology
- Cf. TC379 Lighthouse lenses
- Cf. TP867 Mirrors and mirror frames
- Cf. TR270+ Camera lenses
- Cf. TS517.3+ Manufacture of optical surfaces

385

General works

385.2.A-Z

Special topics, A-Z

385.2.D47

Design

- Cf. QC372.2.D4 Optical instrument design

385.5

Experiments

387

Refractive indices

- Cf. QC426.4 Refractometers

389

Transmission of radiation

391

Photometry. Microphotometry

- Including densitometers
- Cf. QB135 Astronomical photometry
- Cf. TK4367 Electric light testing
- Cf. TP754 Gas light testing

Physical optics

392

Periodicals, societies, congresses, serial publications

393

Collected works (nonserial)

393.2

Dictionaries and encyclopedias

394

Early works through 1800

General works, treatises, and advanced textbooks

395

1801-1969

395.2

1970-

396

Elementary textbooks

397

Addresses, essays, lectures

397.5.A-Z

Special topics, A-Z

397.5.I53

Images

397.5.O77

Optical losses

Study and teaching. Research

398

General works

398.2

Problems, exercises, examinations

Theories of light

401

General works

402

Corpuscular theory

- Cf. QC446.15+ Quantum optics

403

Wave theory

- Cf. QC669+ Electromagnetic theory

406

Miscellaneous speculations

407

Velocity of light

Optics. Light

Physical optics -- Continued

Interference

Including Newton's rings, interferometer

Cf. QH212.I5 Interference microscopes

410.9 Periodicals, societies, congresses, serial publications

411 General works, treatises, and textbooks

411.4 Instruments and apparatus

Diffraction

414.8 Periodicals, societies, congresses, serial publications

414.9 Collected works (nonserial)

415 General works, treatises, and textbooks

416 Addresses, essays, lectures

417 Instruments and apparatus

Including diffraction gratings

Reflection

425 General works

425.2 Juvenile works

425.4 Instruments and apparatus

Including reflectometers

Refraction

425.9 Collected works (nonserial)

426 General works, treatises, and textbooks

426.2 Juvenile works

426.4 Instruments and apparatus

Including refractometers

426.6 Handbooks, tables, formulas, etc.

426.8.A-Z Special topics, A-Z

426.8.D68 Double refraction

426.8.N44 Negative refraction

Scattering (General)

427 Periodicals, societies, congresses, serial publications

427.4 General works, treatises, and textbooks

427.6 Handbooks, tables, formulas, etc.

427.8.A-Z Special topics, A-Z

427.8.C7 Critical opalescence

427.8.C73 Critical scattering

427.8.M5 Mie scattering

427.8.R3 Rayleigh scattering

427.8.S64 Speckle

Cf. TA1671+ Lasers and laser applications

Dispersion

431 General works

435 Anomalous dispersion

437 Incidence

Including grazing incidence

Optics. Light

Physical optics -- Continued

Polarization

Cf. QD481 Stereochemistry

Cf. TP382 Saccharimetry

- 440 Periodicals, societies, congresses, serial publications
- 441 General works, treatises, and textbooks
- 442 Addresses, essays, lectures
- 443 Production and measurement
- 445 Rings and brushes of crystals

Cf. QD941 Optical properties of crystals

- 446.A-Z Other special topics, A-Z

- 446.D5 Dichroism

Nonlinear optics. Quantum optics

For maser and laser physics see QC685+

- 446.15 Periodicals, societies, congresses, serial publications
- 446.2 General works, treatises, and textbooks
- 446.3.A-Z Special topics, A-Z
 - 446.3.A54 Angular momentum
 - 446.3.C45 Chaos
 - 446.3.H37 Harmonics (Electric waves)
 - 446.3.O65 Optical bistability
 - 446.3.O67 Optical phase conjugation
 - 446.3.O68 Optical pumping
 - 446.3.S67 Squeezed light

Magneto-optics see QC675+

- (447) Electronic optics

see QC793.5.E62+

Fiber optics

Cf. TA1800+ Applied fiber optics

- 447.9 Periodicals, societies, congresses, serial publications
- 448 General works, treatises, and textbooks
- 448.2 Addresses, essays, lectures

Holography

Cf. HD9707.5.H34+ Holography industry

Cf. QC244.5 Acoustic holography

Cf. TA1540+ Applied holography

- 449 General works
- 449.3 Electron holography
- 449.5 Optical tomography

Optics. Light -- Continued

Spectroscopy

Class here general works on the theory of spectroscopy and works intended primarily for physicists, including the spectroscopy of all electromagnetic radiations

Class here also compilations of spectra of elements, groups of elements, organic and inorganic compounds

For works on the application of spectroscopy in analytical chemistry and theoretical works intended primarily for chemists, see QD95-QD96; QD272.S6

- 450 Periodicals, societies, congresses, serial publications
- 450.15 Collected works (nonserial)
- 450.3 Dictionaries and encyclopedias
- 450.5 History
- 451 General works, treatises, and textbooks
- 451.2 Pictorial works and atlases
- 451.4 Addresses, essays, lectures
- 451.6 Special aspects of the subject as a whole
- Study and teaching. Research
- 451.8 General works
- 451.82 Laboratory manuals
- 452 Data processing
- 452.5 Instruments and apparatus
- 453 Handbooks, tables, formulas, etc.
Including wavelength tables
- 454.A-Z Special types of spectra and spectroscopy, A-Z
- 454.A2 Absorption spectra
- 454.A25 Accelerator mass spectrometry
- 454.A7 Alpha ray spectroscopy see QC793.5.A22+
- 454.A8 Arc spectra
- Atomic spectroscopy
- Band spectra see QC454.M6
- 454.B39 Beam-foil spectroscopy
- Beta spectroscopy see QC793.5.B42+
- 454.B74 Broadband dielectric spectroscopy
- 454.C634 Collision spectroscopy
- 454.E4 Electron spectroscopy
- 454.E46 Emission spectroscopy
- 454.F6 Flame spectroscopy
- 454.F7 Fourier transform spectroscopy
- 454.F85 Frequency spectra
- Gamma spectroscopy see QC793.5.G32+
- 454.G3 Gas spectra
- 454.H33 Hadamard transform spectroscopy
- Hadron spectroscopy see QC793.5.H32+
- 454.H618 High resolution spectroscopy
- 454.H9 Hyperfine spectra

Optics. Light

Spectroscopy

Special types of spectra and spectroscopy, A-Z --

Continued

- In-beam gamma ray spectroscopy see QC793.5.G32+
- Infrared spectrum see QC457
- 454.I48 Integral field spectroscopy
- 454.I5 Internal reflection spectroscopy
- 454.L3 Laser spectroscopy
- 454.L58 Level-crossing spectroscopy
- 454.L63 Light-beating spectroscopy
- Luminescence spectroscopy see QC476.6
- Magnetic resonance spectroscopy see QC762
- 454.M3 Mass spectroscopy
- 454.M32 Matrix isolation spectroscopy
- 454.M5 Microwave spectroscopy
- 454.M6 Molecular spectroscopy
- Mössbauer spectroscopy see QC491
- Neutron spectroscopy see QC793.5.N462+
- Nuclear magnetic resonance spectroscopy see QC762
- 454.N8 Nuclear spectroscopy
Cf. QC793.5.A22+ Particle spectra
- 454.O66 Optical spectroscopy
- 454.O68 Optogalvanic spectroscopy
- Particle spectra see QC793.5.A22+
- 454.P46 Photodetachment threshold spectroscopy
- 454.P48 Photoelectron spectroscopy
- Plasma spectroscopy see QC718.5.S6
- 454.R3 Radiofrequency spectroscopy
- 454.R36 Raman spectroscopy
- 454.R4 Reflectance spectroscopy
- 454.R47 Resonance ionization spectroscopy
- 454.R5 Resonant ultrasound spectroscopy
- Rotational spectra see QD481
- Scintillation spectroscopy see QC491.5+
- Solar spectroscopy (Meteorology) see QC910.2+
- Solar spectroscopy (Optics) see QC455
- 454.S7 Spark spectroscopy
- 454.T47 Terahertz spectroscopy
- Time-of-flight mass spectroscopy see QC454.M3
- 454.T75 Tunneling spectroscopy
- Ultraviolet spectroscopy see QC459+
- 454.V5 Vibrational spectra
- X-ray spectroscopy see QC482.S6
- 454.Z44 ZEKE spectroscopy

Optics. Light

Spectroscopy -- Continued

455

Solar spectrum

Including wavelength measurements and maps
 For works relating to the constitution and physical
 condition of the sun see QB551

457

Infrared spectrum

Cf. TA1570+ Infrared technology

Ultraviolet spectrum

Cf. TA1501+ Applied optics. Lasers

459

General works

459.5

Far ultraviolet spectrum

Spectra of special substances

462.A-Z

Special elements and groups of elements, A-Z (Table Q1
 modified)

462.C65

Colloids

462.M47

Metal vapors

462.M49

Metals

462.R2

Rare earths

462.T85

Trace elements

462.T86

Transition metals

Organic compounds

462.5

General works, treatises, and textbooks

462.85

Handbooks, tables, formulas, etc.

463.A-Z

Special organic compounds, A-Z

463.A4

Alcohols

463.A47

Alkaloids

463.A8

Amines

463.A84

Anthracene and derivatives

463.A86

Anthraquinones

463.B4

Benzene

463.B5

Biphenyl compounds

463.C3

Carbohydrates

463.C5

Chelates

463.C54

Chlorophyll

463.C57

Chroman

463.C78

Coordination compounds

463.E68

Essences and essential oils

463.E69

Esters

463.E7

Ethers and oxides

463.F55

Fluorocarbons

463.F6

Formaldehyde

463.F8

Furans

463.G84

Gums and resins

463.H4

Heterocyclic compounds

463.H9

Hydrocarbons

463.I44

Imidazole

Optics. Light

Spectroscopy

Spectra of special substances

Organic compounds

Special organic compounds, A-Z -- Continued

463.I5	Indole alkaloids
463.M38	Metal carbonyls
463.N35	Naphthoquinone
463.O7	Organometallic compounds
463.O72	Organophosphorus compounds
463.O73	Organosilicon compounds
463.P46	Plasticizers
463.P5	Polymers
463.P55	Polyurethanes
463.P6	Porphyrin
463.P7	Proteins
463.P92	Pyridines
463.Q5	Quinoline
463.Q54	Quinone
	Resins see QC463.G84
463.S23	Saccharides
463.S72	Solvents
463.S8	Steroids
463.S9	Sulfur organic compounds
463.S94	Surface active agents
463.T4	Terpenes
464.A-Z	Inorganic substances, A-Z
464.A43	Alkali metal halides
464.A44	Alkaline earth ferricyanides
464.A47	Ammonia
464.B67	Borates
464.C34	Calcium fluoride
464.C37	Carbon dioxide
464.C375	Carbon disulfide
464.F45	Ferroelectric crystals
464.F87	Fused salts
464.G55	Glass
464.H93	Hydrides
464.H934	Hydrochloric acid
464.H936	Hydrogen fluoride
464.M47	Mercury compounds
464.M48	Metallic oxides
464.M53	Mica
464.N57	Nitrates
464.N574	Nitric acid
464.N577	Nitrogen dioxide
464.N64	Nonmetallic minerals

- Optics. Light
 - Spectroscopy
 - Spectra of special substances
 - Inorganic substances, A-Z -- Continued
 - 464.P44 Phosphates
 - 464.P46 Phosphorus compounds
 - 464.P68 Potassium hydride
 - 464.P685 Potassium phosphates
 - 464.Q37 Quartz
 - 464.S45 Selenium compounds
 - 464.S54 Silicates
 - 464.S546 Silver chloride
 - 464.S63 Sodium halides
 - 464.S635 Sodium hydride
 - 464.S637 Sodium nitroferricyanide
 - 464.S94 Sulfur dioxide
 - 464.T44 Tellurium chlorides
 - 464.T54 Thallium chloride
 - 464.U73 Uranium compounds
 - 464.W37 Water
 - 464.Z57 Zirconium oxide
 - 465 Instruments and apparatus
 - Including absorptionmeter
 - 467 Structure of spectral lines. Effect of pressure. Stark effect, etc.
 - Cf. QC675.5.Z4 Zeeman phenomenon
 - Radiation physics (General)
 - Cf. QA935+ Wave propagation in elastic solids
 - Cf. QB531 Astronomy
 - Cf. QC191 Elastic properties of solids
 - Cf. QC331+ Thermal radiation
 - Cf. QC787.C6 Nuclear counters, etc.
 - Cf. QC793.5.A+ Radiation of special particles
 - Cf. QC910.2+ Solar radiation
 - Cf. QD601+ Radiation chemistry
 - Cf. QP82.2.R3 Physiological effect
- 474 Periodicals, societies, congresses, serial publications
- 474.5 Collected works (nonserial)
- 475 General works, treatises, and textbooks
- 475.25 Juvenile works
- 475.5 Study and teaching. Research
- 475.6 Special aspects of the subject as a whole
- 475.7 Technique
- 475.8 Instruments and apparatus
- 476.A-Z Special topics, A-Z
- 476.C6 Coherence
 - Duality, Wave-particle see QC476.W38

- Radiation physics (General)
 Special topics, A-Z -- Continued
- 476.S6 Sources of radiation
 476.S86 Superradiance
 476.W38 Wave-particle duality
 Cf. QC401+ Theories of light
- Luminescence
 Cf. QC976.A3 Airglow
 Cf. QD505.8 Chemiluminescence
- 476.4 Periodicals, societies, congresses, serial publications
 476.45 Collected works (nonserial)
 476.5 General works, treatises, and textbooks
 476.6 Luminescence spectroscopy
 Luminescent materials. Phosphors. Scintillators
 Cf. QC787.S34 Scintillation counters
- 476.7 General works
 476.75 Inorganic scintillators
 476.77 Organic scintillators
- Photoluminescence (General)
 476.8 General works
- Fluorescence
 477 General works
 477.2 Instruments and apparatus
 Including fluorimeters
 477.4 Sensitized fluorescence
- Phosphorescence
 Cf. QD79.P4 Phosphorimetry
 Cf. QH641 Bioluminescence
 Cf. TK454.4.P5 Phosphors (Electrical engineering)
 Cf. TK7871.15.P4 Phosphors (Electronics)
- 477.8 Periodicals, societies, congresses, serial publications
 477.9 Collected works (nonserial)
 478 General works, treatises, and textbooks
- 479 Thermoluminescence
 479.5 Cathodoluminescence
 480 Electroluminescence
 480.2 Sonoluminescence
- X-rays. Roentgen rays
 Cf. QB472+ X-ray astronomy
 Cf. QC710+ Discharges through gases
 Cf. QH212.X2 X-ray microscopes
 Cf. RC78+ Medical radiography
 Cf. RM845+ Radiotherapy
 Cf. TR750 Radiography (Photography)
- 480.8 Periodicals, societies, congresses, serial publications
 480.9 Dictionaries and encyclopedias
 481 General works, treatises, and textbooks

- Radiation physics (General)
 X-rays. Roentgen rays -- Continued
- 481.5 Instruments and apparatus
 Cf. RC78.5 Radiography
 Cf. RM862.5 Radiotherapy
 Cf. TR750 Applied photography
- 482.A-Z Special topics, A-Z
 Crystallography see QD945
- 482.D5 Diffraction
- 482.G68 Grenz rays
- 482.P6 Polarization
- 482.S3 Scattering
- 482.S6 Spectroscopy
- Study and teaching. Research
- 482.2 General works
- 482.3 Experiments
- (483) Electric radiations (General)
 see QC660.5+
- 484 Blackbody radiation
- Bremsstrahlung
- 484.2 Periodicals, societies, congresses, serial publications
- 484.3 General works, treatises, and textbooks
- 484.5 Study and teaching. Research
- 484.6.A-Z Special topics, A-Z
- 484.6.15 Inner Bremsstrahlung
- Cosmic ray physics
 Cf. QB463+ Nuclear astrophysics
 Cf. QC770+ Nuclear physics
 Cf. QC809.V3 Van Allen radiation belts
- 484.8 Periodicals, societies, congresses, serial publications
- 484.85 Collected works (nonserial)
- 484.9 History
- 485 General works, treatises, and textbooks
- 485.4 Popular works
- 485.42 Juvenile works
- 485.5 Addresses, essays, lectures
- 485.55 Special aspects of the subject as a whole
- Observations. Data summaries
- 485.57 General works, treatises, and textbooks
- 485.575.A-Z By region or country, A-Z
- 485.6 Technique
- 485.7 Instruments and apparatus
 Cf. QC785.5+ Nuclear instruments and apparatus
- 485.75 Handbooks, tables, formulas, etc.
- 485.8.A-Z Special topics, A-Z
- 485.8.B8 Bursts
 Cosmic ray particles see QC793.3.C6

Radiation physics (General)

Cosmic ray physics

Special topics, A-Z -- Continued

- 485.8.F6 Forbush decreases
- 485.8.O7 Origin
- 485.8.S5 Showers
- 485.8.S8 Stars
- 485.8.V3 Variations, Diurnal, etc.
Including effects due to altitude, longitude, etc.
- 485.9.A-Z Special types, A-Z
- 485.9.A8 Atmospheric cosmic rays
- 485.9.G34 Galactic cosmic rays
- 485.9.P7 Primary cosmic rays
- 485.9.S4 Secondary cosmic rays
- 485.9.S6 Solar cosmic rays
- 485.9.U6 Underground cosmic rays

Other radiations

- Alpha radiations see QC793.5.A22+
- Beta rays see QC793.5.B42+
- Cherenkov radiation
- 490.4 General works, treatises, and textbooks
Instruments and apparatus see QC787.C6
- Gamma rays see QC793.5.G32+
- Infrared rays. Infrared spectrometry see QC457
- Radiation and spectra of isotopes see QC795.8.S6
- 491 Mössbauer effect. Mössbauer spectroscopy
Scintillation spectroscopy
- 491.5 Periodicals, societies, congresses, serial publications
- 492 General works, treatises, and textbooks
Instruments and apparatus see QC787.S34
- Van Allen radiation see QC809.V3

Color

- Cf. BF789.C7 Psychology
- Cf. ML3840 Music and color
- Cf. QD113 Colorimetry in analytic chemistry
- Cf. QD473 Color in relation to atomic structure
- Cf. QP483 Physiological effect
- Cf. RM840 Phototherapy
- Cf. TR510+ Color photography
- Cf. TR977 Photomechanical color processes
- 494 Periodicals, societies, congresses, serial publications
- 494.15 Collected works (nonserial)
- 494.2 Dictionaries and encyclopedias
- 494.3 Nomenclature, terminology, notation, abbreviations
- 494.7 History
- 494.8 Early works through 1800
- 495 General works, treatises, and advanced textbooks

- Radiation physics (General)
- Color -- Continued
- 495.15 Elementary textbooks
- 495.2 Pictorial works and atlases
- 495.3 Popular works
- 495.5 Juvenile works
- 495.7 Addresses, essays, lectures
- 495.8 Special aspects of the subject as a whole
- Study and teaching. Research
- 496 General works
- 496.15 Outlines, syllabi
- 496.3 Experiments
- 496.4 Laboratory manuals
- 496.6 Instruments and apparatus
Including colorimeters
- 496.8 Handbooks, manuals, etc.
- 496.9 Miscellany and curiosa
- Electricity and magnetism
- Cf. QC960.5+ Atmospheric electricity
- Cf. TK1+ Electrical engineering
- Electricity
- Including works that deal collectively with electricity and magnetism
- For electric properties of solids see QC176.8.E35
- 501 Periodicals, societies, congresses, serial publications
- 503 Collected works (nonserial)
- 505 Dictionaries and encyclopedias
- 506 Philosophy. Theory
- 506.5 Nomenclature, terminology, notation, abbreviations
- 507 History
- Biography
- 514 Collective
- 515.A-Z Individual, A-Z
e.g.
- 515.A6 Ampère
- 515.O4 Ohm
- Early works
- 516 Through 1700
- 517 1701-1850
- General works, treatises, and advanced textbooks
1851-1969
- 518 Treatises
- 521 Descriptive and experimental works
- 522 1970-
- 523 Elementary textbooks
- 527 Popular works
- 527.2 Juvenile works

Electricity and magnetism

Electricity -- Continued

- 527.4 Addresses, essays, lectures
 527.5 Special aspects of the subject as a whole
 528.A-Z Special topics, A-Z
 528.E4 Electromechanical analogies
 Maxwell's equations see QC669+
 528.V4 Vector theory
 529 Handbooks, tables, formulas, etc.
 Study and teaching. Research
 For programmed texts see QC518+
 530 General works
 531 Outlines, syllabi
 532 Problems, exercises, examinations
 533 Experiments
 534 Laboratory manuals
 Electric measurements
 Cf. TK275+ Electrical engineering
 535 General works
 536 Electric units
 537 Standards
 Laboratories
 541.A1 General works
 541.A3-Z By region or country, A-Z
 Subarrange each country by Table Q6
 Instruments and apparatus (General)
 543 General works, treatises, and textbooks
 544.A-Z Special instruments, A-Z
 (544.A5) Ammeter
 see QC645
 (544.C3) Cathode ray tubes
 see TK7871.73
 Coils see QC645
 544.C8 Current balance
 Cyclotrons see QC787.C8
 Decremeters see QC667
 Electric meters see TK301+
 544.E3 Electrodynamometer
 544.E4 Electrometer
 544.E45 Electrophori
 544.E5 Electrostatic lenses
 544.G2 Galvanometer
 (544.G3) Gas tubes
 see TK7871.8+
 544.P5 Phonic wheel
 544.P8 Potentiometer
 544.Q3 Quadruple lenses

Electricity and magnetism

Electricity

Instruments and apparatus (General)

Special instruments, A-Z -- Continued

(544.V3)

Vacuum tubes

see TK7871.72+

561

Miscellany and curiosa

Electrostatics. Frictional electricity

Cf. QA825+ Attractions and potential

Cf. QC960.5+ Atmospheric electricity

Cf. TP156.E5 Electrostatic separation

570

Periodicals, societies, congresses, serial publications

571

General works, treatises, and textbooks

571.4

Juvenile works

571.5

Addresses, essays, lectures

Study and teaching. Research

572

General works

572.4

Experiments

573

Instruments and apparatus

Including frictional and induction machines

577

Electrocapillary phenomena

581.A-Z

Other topics, A-Z

581.E4

Electric charge and distribution

581.I5

Induction

581.P6

Potential difference

581.V6

Volta effect

Dielectrics

Cf. TK3401+ Electric insulation

584

Periodicals, societies, congresses, serial publications

584.2

Collected works (nonserial)

585

General works, treatises, and textbooks

585.4

Addresses, essays, lectures

585.5

Study and teaching. Research

585.7.A-Z

Special topics, A-Z

585.7.B7

Breakdown

585.7.C6

Constant

585.7.D5

Dielectrophoresis

585.7.E43

Electric discharge

585.7.H4

Heating

585.7.L6

Loss

585.7.M3

Magnetic properties

585.7.O6

Optical properties

585.7.R3

Radiation effects

585.7.R4

Relaxation

585.75.A-Z

Specific dielectric substances, A-Z

585.75.S55

Silica

585.8.A-Z

Special types of dielectrics, A-Z

Electricity and magnetism

Electricity

Electrostatics. Frictional electricity

Dielectrics

Special types of dielectrics, A-Z -- Continued

585.8.E4

Electrets

585.8.G38

Gaseous

585.8.L56

Liquid

589

Measurement of capacity

Cf. TK2805 Condensers (Dynamoelectric machinery)

Cf. TK7872.C65 Condensers (Electronics)

595

Pyroelectricity

Cf. QD939 Electric properties of crystals

Cf. TK7872.O7 Oscillators

595.5

Piezoelectricity

Cf. TK7872.P54 Piezoelectric devices

Ferroelectricity

Cf. QC715.17 Photoferroelectric effect

Cf. QD939 Electric properties of crystals

596

Periodicals, societies, congresses, serial publications

596.5

General works, treatises, and textbooks

596.9

Addresses, essays, lectures

Electric current (General)

Cf. QC641 Alternating currents

Cf. QD551+ Electrolysis

Cf. TK454+ Electric circuits and networks

601

General works

607

Ohm's law

(610)

Conduction in gases and vapors

see QC710+

Electric conductivity

Cf. TK3301+ Electric conductors

610.3

Periodicals, societies, congresses, serial publications

610.4

General works, treatises, and textbooks

Electric resistance

Cf. QC761+ Magnetic induction

Cf. QC809.E15 Earth resistance

Cf. TK7872.R4 Electric resistors

610.6

General works

610.7

Magnetoresistance

Semiconductor physics

Class here general works on the physical properties of
semiconductor materialsFor works on semiconductor materials used in
electronic engineering see TK7871.85+

Cf. QC176.8.E4 Solid-state electronics

610.9

Periodicals, societies, congresses, serial publications

Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Semiconductor physics -- Continued

- 610.92 Collected works (nonserial)
- 610.94 Nomenclature, terminology, notation, abbreviations
- 610.96 History
- 611 General works, treatises, and textbooks
- 611.2 Addresses, essays, lectures
- 611.24 Special aspects of the subject as a whole
- Study and teaching. Research
 - 611.26 General works
 - 611.28 Problems, exercises, examinations
 - 611.3 Laboratory manuals
 - 611.4 Instruments and apparatus
 - 611.45 Handbooks, tables, formulas, etc.
 - 611.6.A-Z Special topics, A-Z
 - 611.6.A36 Acoustic properties
 - 611.6.D4 Defects
 - 611.6.D5 Diffusion
 - 611.6.D6 Doping
 - 611.6.E43 Electron-hole droplets
 - 611.6.E45 Electron transport
 - Energy-band theory see QC176.8.E4
 - 611.6.G3 Galvanometric effects
 - 611.6.H6 Holes
 - 611.6.H67 Hot carriers
 - 611.6.J85 Junctions
 - 611.6.M64 Molecular beam epitaxy
 - 611.6.O6 Optical effects
 - 611.6.P52 Photoelectromagnetic effects
 - 611.6.P55 Plasma effects
 - 611.6.Q35 Quantum dots
 - 611.6.Q36 Quantum optics
 - 611.6.R3 Radiation effects
 - 611.6.R43 Recombination
 - Reliability see TK7871.85+
 - 611.6.S9 Surface properties
 - 611.6.T4 Thermal properties
 - 611.8.A-Z Specific semiconducting substances and types, A-Z
 - 611.8.A44 Alloys
 - 611.8.A5 Amorphous substances
 - 611.8.C34 Cadmium arsenide
 - 611.8.C45 Chalcopyrite
 - 611.8.C6 Compensated semiconductors
 - 611.8.C64 Compound semiconductors

Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Semiconductor physics

Specific semiconducting substances and types, A-Z --

Continued

- 611.8.D66 Doped semiconductors
- 611.8.G3 Gallium arsenide
- 611.8.G4 Germanium
- 611.8.I52 Indium arsenide
- 611.8.L4 Lead chalcogenides
- 611.8.L5 Liquids
- 611.8.L68 Low-dimensional semiconductors
- 611.8.M25 Magnetic substances
- 611.8.M27 Many-valley semiconductors
- 611.8.M38 Mercury telluride
- 611.8.M4 Metal oxides
- 611.8.N33 Nanocrystals
- 611.8.N35 Narrow gap semiconductors
- 611.8.O68 Ore minerals
- 611.8.O7 Organic substances
- 611.8.P64 Polycrystalline semiconductors
- 611.8.R37 Rare earths
- 611.8.S44 Selenium
- 611.8.S45 Semimetals
- 611.8.S5 Silicon
- 611.8.S86 Superlattices
- 611.8.T44 Tellurium
- 611.8.W53 Wide gap semiconductors
- Superconductivity physics
 - Cf. QC175.4+ Superfluid physics
- 611.9 Periodicals, societies, congresses, serial collections
- 611.917 History
- 611.92 General works, treatises, and textbooks
- 611.922 Juvenile works
- 611.924 Handbooks, tables, formulas, etc.
- Superconducting materials. Superconductors
 - Cf. QC761.3 Superconducting magnets
 - Cf. TK7872.C77 Cryoelectronic devices
 - Cf. TK7872.S8 Engineering
 - Cf. TK7895.C7 Cryotrons
- 611.94 Periodicals, societies, congresses, serial collections
- 611.95 General works, treatises, and textbooks
- Study and teaching. Research
 - General works
 - By region or country

Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Superconductivity physics

Superconducting materials. Superconductors

Study and teaching. Research

By region or country -- Continued

United States

General works

By region or state, A-Z

Other regions or countries, A-Z

Special topics, A-Z

Chemistry

Equilibrium

Including nonequilibrium

Fluctuations

Magnetic properties

Nonequilibrium see QC611.97.E69

Radiation effects

Spectra

Temperature effects

Including transition temperature

Thermal properties

Transition temperature see QC611.97.T46

Tunneling

Special superconducting materials or types of
superconductors, A-Z

Alloys

Aluminum

Anyon superconductivity

Ceramic superconductors

Chalcogenides

Composites

Copper

d-band metals

Dirty superconductors

High temperature superconductors

Magnetic

Niobium

Organic superconductors

Ruthenium

Ternary superconductors

Thin film superconductors

Transition metal oxides

Type I superconductors

Type II superconductors

611.962

611.964.A-Z

611.966.A-Z

611.97.A-Z

611.97.C54

611.97.E69

611.97.F58

611.97.M34

611.97.R33

611.97.S64

611.97.T46

611.97.T54

611.97.T86

611.98.A-Z

611.98.A44

611.98.A48

611.98.A58

611.98.C47

611.98.C53

611.98.C63

611.98.C64

611.98.D33

611.98.D57

611.98.H54

611.98.M34

611.98.N54

611.98.O74

611.98.R88

611.98.T37

611.98.T55

611.98.T73

611.98.T86

611.98.T87

Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Superconductivity physics

Superconducting materials. Superconductors

Special superconducting materials or types of
superconductors, A-Z -- Continued

Vanadium

Zinc

Other special topics, A-Z

Hall effect

Cf. TK7872.H3 Hall effect devices

Photoconductivity

Cf. TK8330+ Photoconductive cells

Potential barrier

Skin effect

Superconductivity see QC611.9+

611.98.V35

611.98.Z56

612.A-Z

612.H3

612.P5

612.P6

612.S6

613

Electric resonance

Cf. QC762 Nuclear magnetism

Cf. QC794.6.R4 Nuclear interaction

615

Measurements of currents

Including ammeters, voltmeters

618

Electromotive force

Including voltmeters

Thermoelectricity. Thomson effect. Peltier effect

Cf. TK2950+ Applied thermoelectricity

621

General works

623

Heating effects of currents

625

Electrokinetics

Electrodynamics

Cf. QA920 Magnetohydrodynamic theory

Cf. QC717+ Ion flow dynamics

Cf. QC718.5.M36 Magnetohydrodynamics (Plasma
physics)

Cf. QC809.E55 Geophysics

630

Periodicals, societies, congresses, serial publications

630.15

Collected works (nonserial)

630.2

Dictionaries and encyclopedias

630.5

History

631

General works, treatises, and textbooks

631.2

Addresses, essays, lectures

631.3

Special aspects of the subject as a whole

Study and teaching. Research

631.7

General works

631.75

Problems, exercises, examinations

631.8

Laboratory manuals

Electricity and magnetism

Electricity

Electrodynamics -- Continued

638

Inductance. Induction

641

Alternating currents (Theory)

Cf. TK1141+ Alternating current engineering

Cf. TK2711+ Alternating current machinery

Electric corona

642.5

Periodicals, societies, congresses, serial publications

643

General works, treatises, and textbooks

643.5

Instruments and apparatus

643.7.A-Z

Special topics, A-Z

643.7.D5

Discharge

643.7.P7

Pressure

645

Electric coils

Including induction coils

Cf. TK2391 Electric coils (Dynamoelectric machinery)

Cf. TK2805 Condensers (Dyanmoelectric machinery)

Cf. TK7872.C56 Electronics

648

Vacuum polarization

Electric oscillations. Electric waves

Including electromagnetic waves

Cf. QB460+ Astrophysics

Cf. QC809.E55 Cosmic electrodynamics

660.5

Periodicals, societies, congresses, serial publications

661

General works, treatises, and textbooks

662

Addresses, essays, lectures

665.A-Z

Special topics, A-Z

665.D3

Damping

665.D5

Diffraction

665.D54

Diffusion

665.E36

Electric displacement

665.E38

Electric fields

665.E4

Electromagnetic fields

665.E45

Electromechanical analogies

665.P5

Photoabsorption

665.P6

Polarization

665.Q3

Quadrupole moment

665.S3

Scattering

665.T7

Transmission

665.V4

Velocity

Study and teaching. Research

666

General works

666.5

Problems, exercises, examinations

667

Instruments and apparatus

Including decimeters

Electricity and magnetism

Electricity

Electric oscillations. Electric waves -- Continued

Electromagnetic theory

Including Maxwell's equations

669 Periodicals, societies, congresses, serial publications

670 General works, treatises, and textbooks

Study and teaching. Research

670.7 General works

670.75 Problems, exercises, examinations

671 Aberrations and moving media

Cf. QB163 Correction of astronomical observations

Electrooptics (General)

Cf. TA1750+ Applied electrooptics

673 General works

673.5.A-Z Special topics, A-Z

673.5.K4 Kerr effect

Magnetooptics (General)

675 General works

675.5.A-Z Special topics, A-Z

675.5.F3 Faraday effect

675.5.Z4 Zeeman effect

675.8

Microwave optics (General)

Radio waves (Theory)

Cf. QC972.6+ Radio meteorology

Cf. TK6540+ Radio engineering

676 Periodicals, societies, congresses, serial publications

676.4 General works, treatises, and textbooks

676.6 Addresses, essays, lectures

676.7.A-Z Special topics, A-Z

676.7.D5 Diffraction

676.7.S3 Scattering

676.7.S35 Scintillation

676.7.T7 Transmission

Microwaves (Theory)

Cf. QC718.5.M5 Plasma physics

Cf. TK7871.4 Masers

Cf. TK7876+ Electronics

677 Periodicals, societies, congresses, serial publications

678 General works, treatises, and textbooks

678.2 Addresses, essays, lectures

Study and teaching. Research

678.4 General works

678.6 Laboratory manuals

Quantum electrodynamics

Cf. QC793.3.E4 Elementary particle physics

679 Periodicals, societies, congresses, serial publications

Electricity and magnetism

Electricity

Quantum electrodynamics -- Continued

679.6

Collected works (nonserial)

680

General works, treatises, and textbooks

680.5

Addresses, essays, lectures

Quantum electronics

Including maser and laser physics

Cf. TA1671+ Lasers

Cf. TK7871.4 Masers

685

Periodicals, societies, congresses, serial publications

686

Collected works (nonserial)

687

Dictionaries and encyclopedias

687.2

History

688

General works, treatises, and textbooks

689

Addresses, essays, lectures

689.5.A-Z

Special topics, A-Z

689.5.L35

Laser manipulation

689.5.L37

Laser pulses

689.55.A-Z

Special types of lasers, A-Z

689.55.F75

Free electron lasers

689.55.P53

Plasma lasers

689.55.S45

Semiconductor lasers

700

Field emission

Electric discharge

701

General works, treatises, and textbooks

Ions. Ionization. Thermionic emission (General)

Cf. QC972.6+ Radio meteorology

Cf. QD561+ Electrochemistry

Cf. QD601+ Radiochemistry

701.7

Periodicals, societies, congresses, serial publications

702

General works, treatises, and textbooks

702.3

Instruments and apparatus

Cf. QC787.I6 Ionization chambers

702.5

Ionization of specific gases, liquids, etc.

702.7.A-Z

Other special topics, A-Z

702.7.A9

Auger effect

702.7.B65

Bombardment

702.7.E38

Electron impact ionization

702.7.E4

Emission, Secondary ion

702.7.H42

Heavy ions

702.7.I55

Ion implantation

702.7.I57

Ion swarms

Magnetic ions see QC754.2.M333

702.7.M84

Multiply charged ions

702.7.N4

Negative ions. Anions

Electricity and magnetism

Electricity

Electric discharge

Ions. Ionization. Thermionic emission (General)

Other special topics, A-Z -- Continued

702.7.P48

Photoionization

Class here works on the physics of ionization produced
by photons of light, X-rays or gamma rays.For general works on chemical and physical
aspects of photoionization see QD716.P48

702.7.P6

Positive ions

702.7.R4

Recombination of ions

702.7.S3

Scattering

Secondary ion emission see QC702.7.E4

702.7.T73

Trapped ions

Spark discharge (General)

Cf. QC454.A+ Spectra of special elements

Cf. QC966+ Lightning

703

General works

703.5

Breakdown of spark

703.7

Exploding wire phenomenon

705

Arc discharge

Cf. TK4311+ Arc lighting

Electric discharge through gases

Including cathode rays, canal rays

Cf. QC480.8+ X-rays

Cf. QC793.5.E62+ Electron emission

Cf. TK7871.7+ Electron tubes

710

Periodicals, societies, congresses, serial publications

711

General works, treatises, and textbooks

711.3

Addresses, essays, lectures

711.4

Special aspects of the subject as a whole

711.6.A-Z

Electric discharge through specified gases, A-Z

711.6.A7

Argon

711.6.O9

Oxygen

711.8.A-Z

Special topics, A-Z

711.8.A34

Afterglow

711.8.B7

Breakdown of spark

711.8.D5

Dissociation

711.8.G5

Glow discharge

711.8.P6

Polarization

711.8.R35

Radio frequency discharges

Electricity and magnetism

Electricity

Electric discharge -- Continued

Photoelectricity. Photoelectric cells

Including other effects of light, X-rays, etc., on discharge

Cf. QC391 Photometry

Cf. QC793.5.P42+ Photons

Cf. QC794.8.P4 Photonuclear interactions

Cf. QD701+ Photochemistry

Cf. TK8300+ Optoelectronic devices. Photoelectronic devices

715

General works

715.15

Photoemission

715.17

Photoferroelectric effect

715.2

Photoelectric properties of special substances

Including sensitivity

715.4

Photoelectric cells

Including photovoltaic effect

Ion flow dynamics

717

General works

717.5.A-Z

Special topics, A-Z

717.5.I6

Ionic mobility

Plasma physics. Ionized gases

Cf. QA920 Magnetohydrodynamics

Cf. QC790.95+ Nuclear fusion

Cf. QC809.P5 Plasma (Cosmic physics)

Cf. TA2001+ Plasma engineering

Cf. TK2970 Magnetohydrodynamic generators

Cf. TL783.6 Plasma rockets

717.6

Periodicals, societies, congresses, serial publications

717.8

Collected works (nonserial)

718

General works, treatises, and textbooks

718.15

Addresses, essays, lectures

718.4

Special aspects of the subject as a whole

718.5.A-Z

Special topics, A-Z

Accelerators see QC718.5.M36

Collisions with matter see QC718.5.P5

Collisions with particles see QC718.5.P55

Conductivity see QC718.5.T7

718.5.C65

Confinement

Controlled fusion see QC791.7+

718.5.C9

Cyclotron waves

718.5.D38

Dense plasma focus

718.5.D4

Density

718.5.D5

Diagnostics

Diffusion see QC718.5.T7

718.5.D7

Drift

Electricity and magnetism

Electricity

Plasma physics. Ionized gases

Special topics, A-Z -- Continued

- 718.5.D84 Dusty plasmas
- 718.5.D9 Dynamics
- 718.5.E37 Electric fields
- 718.5.E4 Electrodynamics
- 718.5.E45 Electromagnetics
- 718.5.E48 Electron oscillations and resonances see QC718.5.W3
- 718.5.E66 Electrostatics
- 718.5.E66 Equilibrium
Including nonequilibrium
- 718.5.G95 Gyrotrons
- 718.5.H5 Heat conduction see QC718.5.T7
- 718.5.H9 High temperature
- 718.5.H9 Hydrodynamics
- 718.5.L3 Instabilities see QC718.5.S7
- 718.5.L6 Ion waves see QC718.5.W3
- 718.5.M3 Kinetics see QC718.5.T5
- 718.5.M36 Laser-produced plasmas
- 718.5.M36 Low temperature
- 718.5.M36 Magnetic fields
- 718.5.M36 Magnetohydrodynamics
Including plasma accelerators
Cf. QA920 Magnetohydrodynamic theory
- 718.5.M5 Microwaves
- 718.5.N4 Neutrality
Including nonneutrality
- 718.5.O6 Nonequilibrium see QC718.5.E66
- 718.5.O6 Optical phenomena
- 718.5.P45 Oscillations see QC718.5.W3
- 718.5.P45 Pinch effect
- 718.5.P5 Plasma accelerators see QC718.5.M36
- 718.5.P5 Plasma reactions with matter
- 718.5.P55 Plasma reactions with particles
- 718.5.P58 Plasma resonance see QC718.5.W3
- 718.5.P58 Plasmoids
- 718.5.Q17 Q-machines
- 718.5.R3 Radiation
- 718.5.S4 Sheaths
Cf. TL3028 Space vehicle communication systems
- 718.5.S6 Shock waves see QC718.5.W3
- 718.5.S7 Spectroscopy
- 718.5.S7 Stability
Including instability
- 718.5.S78 Statistical behavior

Electricity and magnetism

Electricity

Plasma physics. Ionized gases

Special topics, A-Z -- Continued

718.5.S83

Strongly coupled plasmas

718.5.T5

Thermodynamics

718.5.T7

Transport

Including diffusion, conductivity, heat conductance,
velocity

718.5.T8

Turbulence

Velocity see QC718.5.T7

718.5.W3

Waves

Study and teaching. Research

718.6

General works

718.612

Problems, exercises, examinations

718.613

Experiments

Laboratories

718.614

General works

718.615.A-Z

Individual laboratories, A-Z

718.62

Technique

718.64

Instruments and apparatus

718.7

Handbooks, tables, formulas, etc.

718.8

Miscellany and curiosa

(721)

Physics of electrons, protons, and other particles

see QC793+

Magnetism

Cf. QB462.8 Cosmic magnetic fields

Cf. QC176.8.M3 Solid-state physics

Cf. QC718.5.M36 Plasma physics

Cf. QC811+ Geomagnetism

Cf. QD591 Magnetochemistry

750

Periodicals, societies, congresses, serial publications

750.15

Collected works (nonserial)

750.3

Philosophy. Theory

750.4

History

751

Early works through 1800

General works, treatises, and textbooks

753

1801-1969

753.2

1970-

753.5

Popular works

753.7

Juvenile works

753.8

Recreations

Including amateur experiments

753.9

Addresses, essays, lectures

754

Special aspects of the subject as a whole

754.2.A-Z

Special topics, A-Z

754.2.B35

Band theory

Electricity and magnetism

Magnetism

Special topics, A-Z -- Continued

- 754.2.E3 Electromechanical analogies
- 754.2.H9 Hysteresis
- 754.2.M3 Magnetic fields
 - Cf. QC809.M25 Cosmic magnetism
- 754.2.M32 Magnetic force
- 754.2.M33 Magnetic induction
- 754.2.M333 Magnetic ions
- 754.2.M336 Magnetic structure
- 754.2.M34 Magnetization
- 754.2.M35 Magnetostatics
- 754.2.M36 Magnetostriction
- 754.2.P4 Permeability
- 754.2.P45 Photomagnetic effect
- 754.2.P6 Potential
- 754.2.Q34 Quantum theory
- 754.2.S8 Susceptibility

Therapeutic use see RZ422

Study and teaching. Research

- 755 General works
- 755.2 Problems, exercises, examinations
- 755.3 Experiments
 - Cf. QC753.8 Amateur experiments
- 755.4 Laboratory manuals
- Magnetic measurements
- 755.6 General works
- 755.65 Units and standards
- Instruments and apparatus
- 755.67 General works, treatises, and textbooks
- 755.675.A-Z Special instruments, A-Z
- 755.675.H9 Hysteresigraph
- 755.7 Handbooks, tables, formulas, etc.
- 755.8 Miscellany and curiosa

Magnets

- 756.7 Periodicals, societies, congresses, serial publications
- 757 General works, treatises, and textbooks
- 757.5 Juvenile works
- 757.7 Addresses, essays, lectures
- 757.8 Bonded magnets
- 757.9 Permanent magnets
- 757.92 Wiggler magnets

Electromagnetism

- Cf. QH656 Magnetic fields (Cytology)
- 759.6 Periodicals, societies, congresses, serial publications
- 759.8 History

Electricity and magnetism

Magnetism

Electromagnetism -- Continued

760 General works, treatises, and textbooks

760.2 Juvenile works

760.25 Addresses, essays, lectures

760.4.A-Z Special topics, A-Z

760.4.M33 Magnetic monopoles

760.4.M37 Mathematics

Study and teaching. Research

760.5 General works

760.52 Problems, exercises, examinations

760.54 Data processing

760.6 Handbooks, tables, formulas, etc.

Electromagnets

Cf. QC787.C3 Calutrons

Cf. TJ1366 Lifting magnets

Cf. TK454.4.E5 Electrical engineering

761 General works

761.2 Juvenile works

761.3 Superconducting magnets

Paleomagnetism see QE501.4.P35

761.4 Ferrimagnetism

Cf. QC766.F3 Ferrites

761.5 Ferromagnetism. Antiferromagnetism

761.8 Thermomagnetism

Nuclear magnetism

761.9 General works

762 Nuclear magnetic resonance

Other special topics, A-Z

762.6.A-Z Acoustic nuclear magnetic resonance

762.6.A25 Electron nuclear double resonance

762.6.E45 Giant nuclear magnetic resonance

762.6.G53 Hyperfine interactions

762.6.H94 Magnetic resonance imaging

762.6.M34 Relaxation

762.6.R44 Spin-lattice relaxation

762.6.S64 Spin waves

762.6.S65 Translational motion

762.6.T73

Paramagnetism

762.9 General works

763 Electron paramagnetic resonance

764 Diamagnetism

Magnetic materials

Cf. TK454.4.M3 Electrical engineering

764.5 Periodicals, societies, congresses, serial publications

764.52 Dictionaries and encyclopedias

Electricity and magnetism

Magnetism

Magnetic materials -- Continued

765

General works

766.A-Z

Special magnetic materials, A-Z

Alloys, Magnetic see QC766.M34

766.A4

Amorphous substances

766.C6

Cobalt

766.F3

Ferrites

Fluids, Magnetic see QC766.M36

766.I7

Iron

766.M34

Magnetic alloys

766.M36

Magnetic fluids

766.M4

Metallic oxides

766.R3

Rare earths

766.T56

Thorium

Nuclear and particle physics. Atomic energy. Radioactivity

Cf. QC170+ Constitution of matter. Atomic physics

Cf. QD601+ Radiochemistry

Cf. TK9001+ Nuclear engineering

Cf. UG1282.A8 Atomic bombs

770

Periodicals, societies, congresses, serial publications

771

Collected works (nonserial)

772

Dictionaries and encyclopedias

Communication of information

772.2

General works

772.4

Information services

History

773.A1

Development and projects leading to production of first atomic bombs

773.A2-Z

General works

773.3.A-Z

By region or country, A-Z

Biography

774.A2

Collective

774.A3-Z

Individual, A-Z

774.2

Directories

776

General works, treatises, and advanced textbooks

777

Elementary textbooks

778

Popular works

778.5

Juvenile works

780

Addresses, essays, lectures

782

Special aspects of the subject as a whole

782.5.A-Z

Special topics, A-Z

782.5.P4

Photography

Cf. QC787.N78 Nuclear emulsions

783

Handbooks, tables, formulas, etc.

Data processing

Nuclear and particle physics. Atomic energy. Radioactivity

Data processing -- Continued

783.3 General works, treatises, and textbooks

783.4 Laboratory manuals

783.5 Pictorial works and atlases

Study and teaching

783.8 General works

783.85 Problems, exercises, examinations

784 Laboratory manuals

784.5 Atomic and nuclear measurements

Including atomic units

Instruments and apparatus

785.5 Periodicals, societies, congresses, serial publications

785.7 Collected works (nonserial)

786 General works, treatises, and textbooks

786.2 Addresses, essays, lectures

Nuclear reactors for research. Reactor physics

Cf. TK9202+ Nuclear reactor engineering

786.4 Periodicals, societies, congresses, serial publications

History

786.42 General works

786.43.A-Z By region or country, A-Z

786.45 Directories

786.5 General works, treatises, and textbooks

786.55 Addresses, essays, lectures

786.6.A-Z Special topics, A-Z

Accidents see TK9001+

786.6.C6 Computer programs

786.6.D4 Design and construction

Fuel elements see TK9360+

786.6.K5 Kinetics

786.6.P68 Power distribution

786.6.S73 Statistical methods

786.6.T4 Thermal neutrons

Cf. QC793.5.T42+ Elementary particle physics

Study and teaching. Research

786.7 General works

786.75 Experiments

786.8 Handbooks, tables, formulas, etc.

787.A-Z Other instruments, A-Z

787.B4 Betatrons

Bevatron see QC787.S9

787.B8 Bubble chambers

787.C3 Calutrons

787.C56 Cloud chambers

787.C58 Coincidence circuits

Cold cathode tubes see TK7871.84.C6

Nuclear and particle physics. Atomic energy. Radioactivity

Instruments and apparatus

Other instruments, A-Z

- 787.C59 Colliders
- 787.C6 Counters
 - Cf. TK9180 Nuclear engineering
- 787.C8 Cyclotrons
- 787.D35 Damping rings
- 787.D74 Drift chambers
- 787.E37 Electret ionization chambers
- 787.E39 Electron accelerators
- 787.E4 Electrostatic accelerators
- 787.E42 Electrostatic analyzers
- 787.F75 Fricke dosimeters
- 787.G32 Gamma ray detectors
- 787.G34 Gas calorimeters
- 787.G4 Geiger-Müller counters
- 787.H53 High-brightness accelerators
- 787.H54 High pressure ionization chambers
- 787.I6 Ionization chambers
- 787.K55 Klystrons
- 787.L5 Linear accelerators
- 787.L53 Linear colliders
- 787.M3 Magnetic analyzers
- 787.N78 Nuclear emulsions
- 787.N83 Nuclear track detectors
- 787.O6 Optical instruments
- 787.P3 Particle accelerators (General)
 - Cf. TK9340 Nuclear engineering
- 787.P34 Particle analyzers
- 787.P46 Photoelectric multipliers see TK8314
- 787.P69 Photon detectors
- 787.P69 Proportional counters
- 787.P7 Proton accelerators
- 787.P73 Proton antiproton colliders
 - Including proton synchrotron colliders
- 787.P8 Pulse height analyzers
- 787.R43 Recirculating electron accelerators
- 787.S3 Scanning systems
- 787.S34 Scintillation counters
- 787.S4 Sector focused cyclotrons
- 787.S45 Self-quenching counters
- 787.S55 Spark chambers
- 787.S6 Spectrometer
- 787.S8 Storage rings
- 787.S83 Supercolliders
 - Including Superconducting Super Collider

Nuclear and particle physics. Atomic energy. Radioactivity

Instruments and apparatus

Other instruments, A-Z -- Continued

- 787.S85 Synchrocyclotrons
- 787.S9 Synchrotrons
- 787.T35 Targets
- 787.V3 Van de Graaff generators
- 787.V45 Vertex detectors

Research

Including laboratories and projects

- 788 General works
- 789.2.A3-Z By region or country, A-Z
 - Subarrange each country by Table Q6

Nuclear fission

- 789.7 Periodicals, societies, congresses, serial publications
- 790 General works, treatises, and textbooks
- 790.3 Addresses, essays, lectures
- 790.4.A-Z Special topics, A-Z
 - 790.4.A6 Angular distribution
 - Delayed neutrons see QC793.5.D42+
 - 790.4.E6 Energy loss
 - 790.4.F5 Fission products (General)
 - Neutron transport theory see QC793.3.T7
 - 790.4.P4 Photofission
 - 790.4.P5 Pile theory
 - 790.4.S9 Symmetrical fission
 - 790.6 Instruments and apparatus
 - 790.8.A-Z Fission of specific elements, A-Z (Table Q1)

Nuclear fusion

Cf. UG1282.A8 Hydrogen bomb

- 790.95 Periodicals, societies, congresses, serial publications
- 790.97 Collected works (nonserial)
- 791 General works, treatises, and textbooks
- 791.4 Popular works
- 791.5 Juvenile works
- 791.6 Addresses, essays, lectures
- Controlled fusion
 - 791.7 Periodicals, societies, congresses, serial publications
 - 791.72 Collected works (nonserial)
 - 791.725 Directories
 - 791.73 General works, treatises, and textbooks
 - 791.735 Popular works
 - 791.74 Addresses, essays, lectures
 - Study and teaching. Research
 - 791.745 General works
 - By region or country
 - United States

Nuclear and particle physics. Atomic energy. Radioactivity

Nuclear fusion

Controlled fusion

Study and teaching. Research

By region or country

United States -- Continued

791.75

General works

791.755.A-Z

By region or state, A-Z

791.76.A-Z

Other regions or countries, A-Z

791.77.A-Z

Special devices, A-Z

791.77.S7

Stellarators

791.775.A-Z

Special topics, A-Z

791.775.C64

Cold fusion

Inertial confinement fusion see QC791.775.P44

791.775.L37

Laser fusion

791.775.P44

Pellet fusion. Inertial confinement fusion

791.8.A-Z

Other special topics, A-Z

Neutron transport theory see QC793.3.T7

Thermonuclear reactions see QC791.7+

Atomic energy

Cf. BR115.A83 Moral and religious aspects

Cf. HD9698+ Economic aspects

Cf. QC913.2.A8 Meteorological aspects

Cf. TK9001+ Atomic power

791.9

Periodicals, societies, congresses, serial publications

791.915

Collected works (nonserial)

791.92

Dictionaries and encyclopedias

Communication of information

791.93

General works

791.94

Information services

Nuclear regulatory commissions

791.948

General works

791.95.A-Z

By region or country, A-Z

791.96

History

791.98

Directories

792

General works, treatises, and textbooks

792.4

Popular works

792.5

Juvenile works

792.6

Addresses, essays, lectures

792.7

Special aspects of the subject as a whole

Including peaceful uses of atomic energy

Study and teaching. Research

792.72.A-.Z8

General works

792.72.Z9

Catalogs of audiovisual materials

By region or country

United States

792.74

General works

Nuclear and particle physics. Atomic energy. Radioactivity

Atomic energy

Study and teaching. Research

By region or country

United States -- Continued

792.76.A-Z

By region or state, A-Z

792.78.A-Z

Other regions or countries, A-Z

Laboratories

792.79

General works

792.8.-Z

By region or country, A-Z

Subarrange each country by Table Q6

Elementary particle physics

Cf. QC170+ Structure of matter and other theories

793

Periodicals, societies, congresses, serial publications

793.12

Collected works (nonserial)

793.13

Philosophy

793.15

Classification

793.16

History

793.2

General works, treatises, and advanced textbooks

793.24

Elementary textbooks

793.26

Popular works

793.27

Juvenile works

793.28

Addresses, essays, lectures

793.29

Special aspects of the subject as a whole

793.3.A-Z

Special topics, A-Z

793.3.A4

Algebra of currents

Cf. QC174.52.A43 Quantum field theory

Algebraic geometry see QC793.3.G46

793.3.A5

Angular momentum

793.3.B4

Particle beams

793.3.B5

Binding energy. Nuclear forces

793.3.B6

Bootstrap theory

793.3.C53

Charm

793.3.C54

Chirality

793.3.C56

Collective excitations

793.3.C57

Color confinement

793.3.C58

Conservation laws

793.3.C6

Cosmic ray and ionospheric influences

793.3.C67

Coupling constants

793.3.D4

Decay. Lifetime

793.3.D43

Degree of freedom

793.3.D5

Diffraction

793.3.D55

Diffusion

793.3.D9

Dynamics

793.3.E4

Electrodynamics

793.3.E45

Electromagnetism

Electronic data processing see QC793.47.E4

Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

Special topics, A-Z -- Continued

- 793.3.E5 Energy ranges
Energy spectra see QC793.5.A22+
Exciton theory see QC794.6.E9
- 793.3.E93 Exotic nuclei
- 793.3.F5 Field theories
Flavor see QC793.3.Q37
- 793.3.G38 Gauge fields
Including gauge theories
- 793.3.G46 Geometry, Algebraic
- 793.3.H44 Helicity
- 793.3.H5 High energy physics
Invariance see QC793.3.S9
Ionospheric influences see QC793.3.C6
Isospin see QC793.3.S6
- 793.3.K5 Kinematics
- 793.3.L53 Lie algebras
Lifetime see QC793.3.D4
Magnetic dipole moment see QC793.3.S6
- 793.3.M3 Magnetic fields
- 793.3.M36 Matrix theories
Molecules, Nuclear see QC793.3.N82
Momentum see QC793.3.S6
Nuclear cluster theory see QC793.3.S8
Nuclear emulsions see QC793.47.P4
Nuclear forces see QC793.3.B5
- 793.3.N8 Nuclear matter
Nuclear models see QC793.3.S8
- 793.3.N82 Nuclear molecules
Nuclear orientation see QC793.3.S6
- 793.3.N83 Nuclear shapes
Particle accelerators see QC787.P3
Particle beams see QC793.3.B4
Phase shift see QC794.6.S3
Photography. Nuclear emulsions see QC793.47.P4
Polarization see QC794.6.S3
Problem of many bodies see QC174.17.P7
- 793.3.Q35 Quantum chromodynamics
- 793.3.Q37 Quantum flavor dynamics
Quantum theory see QC174.45+
- 793.3.R4 Regge trajectories
Cf. QC174.17.G7 Group theory applied to quantum theory
Relaxation see QC762.6.R44
Renormalization theory see QC174.17.R46

Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

Special topics, A-Z -- Continued

Resonance. Resonance integral see QC794.6.R4

Scattering see QC794.6.S3

Shapes, Nuclear see QC793.3.N83

793.3.S57

Space and time

Cf. QC173.59.S65 Relativity physics

Spectroscopy see QC454.N8

793.3.S6

Spin. Moments. Magnetic dipole moment. Nuclear orientation

793.3.S77

Statistical mechanics

793.3.S8

Structure

Including nuclear models and nuclear cluster theory

793.3.S9

Symmetry. Invariance

Cf. QC174.17.S9 Quantum theory

793.3.T67

Tracks

Transitions see QC454.N8

793.3.T7

Transport theory

793.3.V5

Violations

793.3.W3

Wave mechanics

793.3.W4

Weight diagrams

Study and teaching. Research

793.4

General works

793.412

Experiments

793.42

Problems, exercises, examinations

Technique

793.46

General works

793.47.A-Z

Special, A-Z

793.47.E4

Electronic data processing

793.47.P4

Photography. Nuclear emulsions

793.47.S83

Statistical methods

Instruments and apparatus see QC785.5+

793.49

Miscellany and curiosa

793.5.A-Z

Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z

793.5.A22-.A229

Alpha particles. Alpha rays (Table Q2)

793.5.A25-.A259

Anyons (Table Q2)

793.5.B32-.B329

Baryons (Table Q2)

793.5.B42-.B429

Beta particles. Beta rays (Table Q2)

793.5.B62-.B629

Bosons (Table Q2)

Including intermediate, W, and Z bosons

793.5.C64-.C649

Cold neutrons (Table Q2)

Including ultracold neutrons

793.5.D42-.D429

Delayed neutrons (Table Q2)

793.5.D442-.D4429

Delayed protons (Table Q2)

793.5.D482-.D4829

Deuterons (Table Q2)

Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z -- Continued

- 793.5.E62-.E629 Electrons (Table Q2)
 Including synchrotron radiation
 Cf. QC449.3 Electron holography
- 793.5.F32-.F329 Fast neutrons (Table Q2)
- 793.5.F42-.F429 Fermions (Table Q2)
- 793.5.G32-.G329 Gamma rays (Table Q2)
- 793.5.G552-.G5529 Gluons (Table Q2)
- 793.5.H32-.H329 Hadrons (Table Q2)
 Cf. QC794.8.S8 Strong interactions
- 793.5.H34-.H349 Heavy leptons (Table Q2)
- 793.5.H42-.H429 Hyperons (Table Q2)
 Including sigma particles and Y-particles
- Intermediate bosons see QC793.5.B62+
- Kaons see QC793.5.M42+
- 793.5.L42-.L429 Leptons (Table Q2)
 Cf. QC793.5.H34+ Heavy leptons
 Cf. QC794.8.W4 Weak interactions
- 793.5.M32-.M329 Magnons (Table Q2)
- 793.5.M42-.M429 Mesons (Table Q2)
 Including kaons, muons, and pions
- Muons see QC793.5.M42+
- 793.5.N42-.N429 Neutrinos (Table Q2)
- 793.5.N462-.N4629 Neutrons (Table Q2)
- 793.5.N82-.N829 Nucleons (Table Q2)
- 793.5.N862-.N8629 Nuclides (Table Q2)
- Phonons see QC176.8.P5
- 793.5.P42-.P429 Photons (Table Q2)
 Cf. QC176.8.P6 Polaritons
 Cf. QC794.8.E4 Electromagnetic interactions
- Pions see QC793.5.M42+
- Polarons see QC176.8.P62
- 793.5.P58-.P589 Pomeron (Table Q2)
- 793.5.P62-.P629 Positrons (Table Q2)
- 793.5.P642-.P6429 Prompt neutrons (Table Q2)
- 793.5.P72-.P729 Protons (Table Q2)
- 793.5.Q252-.Q2529 Quarks (Table Q2)
- 793.5.Q32-.Q329 Quasi-particles (Table Q2)
- Sigma particles see QC793.5.H42+
- 793.5.S62-.S629 Slow neutrons (Table Q2)
- 793.5.S72-.S729 Strange particles (Table Q2)
- 793.5.T32-.T329 Tachyons (Table Q2)
- 793.5.T37-.T379 Thermal electrons (Table Q2)
- 793.5.T42-.T429 Thermal neutrons (Table Q2)

- Nuclear and particle physics. Atomic energy. Radioactivity
- Elementary particle physics
- Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z -- Continued
 - W bosons see QC793.5.B62+
 - Y-particles see QC793.5.H42+
 - Z bosons see QC793.5.B62+
- Nuclear interactions
- Cf. QC454.N8 Nuclear spectroscopy
- 793.9 Periodicals, societies, congresses, serial publications
- 793.95 Collected works (nonserial)
- 794 General works, treatises, and textbooks
- 794.5 Addresses, essays, lectures
- 794.6.A-Z Special topics, A-Z
- 794.6.A5 Angular distribution. Angular correlations
 - 794.6.C58 Coherence
 - 794.6.C6 Collisions
 - 794.6.C7 Cross section of interactions
 - Decay see QC794.6.R3
 - 794.6.E9 Excitation
 - Cf. QC795.8.E5 Energy levels
 - 794.6.F4 Feynman diagrams
 - 794.6.F65 Form factor
 - 794.6.G7 Grand unified theories
 - 794.6.I5 Internal conversion
 - 794.6.I8 Isotone shift. Isotope shift
 - 794.6.K5 Kinematics
 - 794.6.M6 Moments
 - 794.6.M85 Multiplicity
 - Polarization see QC794.6.S3
 - 794.6.R25 Radiative capture
 - 794.6.R3 Radioactivity. Decay
 - 794.6.R4 Resonance. Resonance integral
 - 794.6.S3 Scattering
 - Including elastic scattering, inelastic scattering, polarization, etc.
 - 794.6.S75 Standard model
 - 794.6.S8 Stopping power
 - 794.6.S85 String models
 - Including superstring theories
 - Transitions see QC454.N8
- 794.8.A-Z Special types of interactions, A-Z
- 794.8.D57 Direct
 - 794.8.E35 Effective
 - 794.8.E4 Electromagnetic
 - Cf. QC793.5.P42+ Photons
 - 794.8.E44 Electroweak

Nuclear and particle physics. Atomic energy. Radioactivity

Nuclear interactions

Special types of interactions, A-Z -- Continued

794.8.E93

Exclusive

794.8.G7

Gravitational

794.8.H4

Heavy ion induced

Including heavy ion collisions

794.8.H5

High energy

Cf. QC793.3.H5 High energy physics

Hyperfine see QC762.6.H94

794.8.I52

Inclusive

794.8.P4

Photonuclear

Cf. QC715+ Photoelectricity

794.8.S7

Spallation

794.8.S8

Strong

Cf. QC793.5.H32+ Hadrons

794.8.W4

Weak

Cf. QC793.5.L42+ Leptons

Radioactivity and radioactive substances

Including ionizing radiation

Cf. QC474+ Radiation physics

Cf. QC913+ Meteorological aspects

Cf. QD601+ Radiochemistry

Cf. QE501.4.N9 Nuclear geophysics

Cf. QH543.5+ Radiobiology

794.95

Periodicals, societies, congresses, serial publications

794.96

Collected works (nonserial)

794.97

Dictionaries and encyclopedias

794.98

History

795

General works, treatises, and textbooks

795.26

Popular works

795.27

Juvenile works

795.28

Addresses, essays, lectures

795.3

Special aspects of the subject as a whole

795.32.A-Z

Special topics, A-Z

795.32.R3

Radiation dosimetry in physics

795.32.S3

Safety measures for physicists

Cf. RA1231.R2 Toxicology

Cf. TK9152+ Nuclear engineering

Study and teaching. Research

795.34

General works

795.36

Experiments

795.38

Laboratory manuals

Laboratories see QD604.8+

Technique

Cf. TK9151.4+ Radiation environment procedures

795.4

General works

Nuclear and particle physics. Atomic energy. Radioactivity

Radioactivity and radioactive substances

Technique -- Continued

795.42 Measurement of radioactivity and ionizing radiation

795.5 Instruments and apparatus (General)

For individual instruments see QC785.5+

795.52 Handbooks, tables, formulas, etc.

795.55.A-Z Special types of radioactivity, A-Z

795.55.I5 Induced radioactivity

Radioactive substances and radioisotopes

Cf. TK9400+ Nuclear engineering

795.6 Periodicals, societies, congresses, serial publications

795.64 Dictionaries and encyclopedias

795.7 General works, treatises, and textbooks

795.74 Juvenile works

Study and teaching. Research

795.76 General works

795.77 Experiments

795.78 Laboratory manuals

795.8.A-Z Special topics, A-Z

Prefer classification by specific substance in QC796

795.8.D4 Decay

795.8.E5 Energy levels

795.8.F5 Fission products

795.8.H3 Half-life

795.8.I5 Internal conversion

Isobars, Nuclear see QC795.8.N8

795.8.N8 Nuclear isomers. Nuclear isobars

795.8.R3 Radionuclides

795.8.S6 Spectra

For spectra of specific substances see QC462+

Standards see TK9400+

795.8.T45 Thermal properties

Transportation see HE199.5.R3+

796.A-Z Special radioactive substances and radioisotopes, A-Z
(Table Q1)

796.2 Superheavy elements

Cf. QD172.S93 Inorganic chemistry

Applications

For applications in special fields, see the field, e.g. QH324.3,
Tracers in biological research; RM858, Radioisotopes in
therapeutics; TK9400-9401, Radioactive substances in
industry

798.A1 General works, treatises, and textbooks

798.A2-Z Individual, A-Z

798.D3 Dating

798.T7 Tracers

- Geophysics. Cosmic physics
 Cf. GB5000+ Natural disasters
- 801 Periodicals, societies, congresses, serial publications
- 801.3 International Geophysical Committee. International
 Geophysical Year
- 801.4 International Years of the Quiet Sun
- 801.5 Collected works (nonserial)
- 801.9 Dictionaries and encyclopedias
- Observations
- 802.A1 General works, treatises, and textbooks
- 802.A2-Z By name of issuing observatory, A-Z
 Prefer QC803
- 803.A-Z By region or country, A-Z
- 804 History
 Biography
- 805.A2 Collective
- 805.A3-Z Individual, A-Z
- 806 General works, treatises, and textbooks
- 806.4 Juvenile works
- 806.6 Addresses, essays, lectures
- 807 Special aspects of the subject as a whole
 Study and teaching. Research
- 807.5 General works
- 807.52 Problems, exercises, examinations
- 807.6.A-Z By region or country, A-Z
- Observatories
- 808.A2 General works
- 808.A5-Z By region or country, A-Z
Under each country:
 .x *General works*
 .x2A-.x2Z *Individual observatories. By name,*
 A-Z
- 808.5 Technique. Instructions for observers
- 808.6 Data processing
- 808.7 Instruments and apparatus
- 808.8 Handbooks, tables, formulas, etc.
- 809.A-Z Special topics, A-Z
- 809.A25 Acoustic phenomena
- 809.C6 Cosmic noise
 Earth radiation see QC809.T4
- 809.E15 Earth resistance
- 809.E2 Earth tides
- 809.E5 Elastic waves
- 809.E55 Electrodynamics
 Cf. QB460+ Astrophysics
- 809.E6 Energy budget. Heat budget
- 809.F5 Fluid dynamics

- Geophysics. Cosmic physics
 Special topics, A-Z -- Continued
 Heat budget see QC809.E6
 809.M25 Magnetic fields. Geomagnetic micropulsations
 809.M3 Magnetohydrodynamics
 809.M35 Magnetosphere. Magnetopause
 809.M37 Mathematics
 Nuclear astrophysics see QB463+
 Nuclear geophysics see QE501.4.N9
 809.P3 Paleogeophysics
 809.P5 Plasmasphere. Space plasmas
 809.R3 Radiation
 Solar wind see QB529+
 Space plasmas see QC809.P5
 809.S67 Spectral theory
 809.T38 Terrestrial heat flow
 809.T4 Terrestrial radiation
 809.V3 Van Allen radiation belts
- Geomagnetism
 Cf. QC750+ Magnetism
 Cf. QE501.4.P35 Paleomagnetism
 811 Periodicals, societies, congresses, serial publications
 811.15 Collected works (nonserial)
 813 History
 814 Early works through 1800
 General works, treatises, and textbooks
 815 1801-1969
 815.2 1970-
 815.5 Juvenile works
 815.7 Addresses, essays, lectures
 816 Special aspects of the subject as a whole
- Observatories
 818.A2 General works
 818.A5-Z By region or country, A-Z
Under each country:
 .x *General works*
 .x2A-.x2Z *Individual observatories. By name, A-Z*
- 819 Instruments and apparatus
 Including magnetometer
 820 Technique. Instruction for observers
 820.6 Data processing
 821 Handbooks, tables, formulas, etc.
 822 Maps and mapping
 Including construction, use, and interpretation of maps
- Magnetic surveys
 Geographic areas below are not subarranged by country

Geomagnetism

Magnetic surveys -- Continued

- 825 General works
- 825.1 North America
- 825.2 Mexico, Central America, and West Indies
- 825.3 South America
- 825.4 Europe
- 825.5 Asia
- 825.6 Africa
- 825.7 Australia
- 825.75 New Zealand
- 825.8 Arctic regions
- 825.9 Antarctica
- 826.A-Z Oceanic areas, A-Z

Geomagnetic field (Analysis and theory)

- 827 General works
- 828 Secular variation

Magnetic observations

- 830.A-Z General works. By name of issuing observatory, A-Z
- 831 Diurnal variations
- 833 Other periodic variations
- 835 Magnetic disturbances
 - Including magnetic storms

Geomagnetism and related aspects

- 836 Sunspot periods
- 837 Eclipses
- 839 Meteorological phenomena
- 841 Geological structure
- 843 Earthquakes
- 845 Earth currents

Deviation of the magnetic compass and other magnetic instruments. Magnetism of ships and aircraft

- Cf. TL589.2.C6 Aeronautical instruments
- Cf. VK577 Nautical instruments

Meteorology. Climatology

Including the earth's atmosphere and atmospheric physics

For works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability see QC980+

Cf. GB2801+ Hydrometeorology

Cf. N72.M48 Art and meteorology

Cf. QB603.A85 Planetary meteorology

Cf. S600+ Agricultural meteorology

Cf. SD390.5+ Forest meteorology

Cf. SH343.3 Fishery meteorology

Cf. TA197+ Engineering meteorology

Cf. TL556+ Aeronautical meteorology

Cf. UG467 Military meteorology

- 851 Periodicals, societies, congresses, serial publications
- 852 Collected works (nonserial)
- 854 Dictionaries and encyclopedias
- 854.15 Communication of meteorological information
 For computer network resources see QC866.5.C67
 For exchange of meteorological information see
 QC866.5.E93
- 854.2 Nomenclature, terminology, notation, abbreviations
- History
- 855 General works
- 857.A-Z By region or country, A-Z
- Biography
- 858.A2 Collective
- 858.A3-Z Individual, A-Z
- 859 Early works through 1800
- General works, treatises, and advanced textbooks
- 861 1801-1969
- 861.2 1970-2000
- 861.3 2001-
- 863 Elementary textbooks
- 863.4 Popular works
 Including works for hobbyists
- 863.5 Juvenile works
- 864 Handbooks, tables, formulas, etc.
 Cf. QC871.4 Observers' manuals
 Cf. QC873 Computation tables
- 865 Addresses, essays, lectures
- 866 Special aspects of the subject as a whole
- 866.5.A-Z Special topics, A-Z
- 866.5.C65 Communication systems
- 866.5.C67 Computer network resources
 Including the Internet

- Meteorology. Climatology
 Special topics, A-Z -- Continued
- 866.5.E93 Exchange of meteorological information
 866.5.G46 Geographic information systems
 866.5.I5 International cooperation
 Cf. QC875.2.A+ International projects, programs, etc.
- 866.5.P4 Photography (General)
- Study and teaching. Research
- 869 General works
 869.15 Outlines, syllabi
 869.2 Programmed instruction
 869.3 Problems, exercises, examinations
 869.4.A-Z By region or country, A-Z
 869.5 Meteorology as a profession. Vocational guidance
 870 Miscellany and curiosa
- Technique. Instructions for observers
- 871 Methods of observation
 871.2 Observation forms, blanks, etc.
 871.4 Observers' manuals
 872 Telegraphic cipher codes for meteorological data
 873 Computation tables (General)
 Synoptic meteorology. Computation and analysis
- 874 General works
 874.3 Data processing
 874.5 Statistical methods
 874.8 Laboratory manuals
- Meteorological stations and observatories. Weather services
 Including marine meteorological services
- 875.A2 General works
 875.A5-Z By region or country, A-Z
 Under each country:
 .x *General works*
 .x2A-.x2Z *Individual observatories. By name,*
 A-Z
- 875.2.A-Z Individual international projects, programs, etc. By name,
 A-Z
- Meteorological instruments
 For instruments of special fields, see the field, e.g., for
 Rain gauges see QC926
- 875.5 Periodicals, societies, congresses, serial publications
 875.7 History
 876 General works, treatises, and textbooks
 876.5 Juvenile works
 876.6 Addresses, essays, lectures
- Museums. Exhibitions
- 876.7.A1 General works

- Meteorology. Climatology
 Meteorological instruments
 Museums. Exhibitions -- Continued
 876.7.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
 877 Weather signals, storm warnings, etc.
 877.5 Weather broadcasting
 Including radio and television weathercasting
 878 Construction of weather maps, charts, etc.
 Aeronomy. Upper atmosphere
 878.5 Periodicals, societies, congresses, serial publications
 878.6 Collected works (nonserial)
 879 General works, treatises, and textbooks
 879.15 Juvenile works
 879.2 Addresses, essays, lectures
 Study and teaching. Research
 General works
 879.23 By region or country, A-Z
 879.232.A-Z Instruments and apparatus
 879.25 Aeronautics in meteorology
 Including sounding balloons, kites, etc.
 Cf. TL556+ Meteorology in aeronautics
 879.3 Periodicals, societies, congresses, serial publications
 879.35 General works, treatises, and textbooks
 879.36 Addresses, essays, lectures
 Astronautics in meteorology
 Including weather satellites, rockets, etc.
 879.4 Periodicals, societies, congresses, serial publications
 879.5 General works, treatises, and textbooks
 879.53 Juvenile works
 879.54 Addresses, essays, lectures
 879.55.A-Z Special topics, A-Z
 879.55.P4 Photography
 Including automatic picture receiving and transmission,
 etc.
 Stations, networks, and programs
 879.56 General works
 879.562.A2-Z By region or country, A-Z
 Under each country:
 .x *General works*
 .x2A-.x2Z *Individual stations, networks, and
 programs. By name, A-Z*
 879.57 Handbooks, tables, formulas, etc.
 Observations. Data summaries
 879.59.A1 General works, treatises, and textbooks
 879.59.A3-Z By region or country, A-Z
 Atmospheric chemistry

Meteorology. Climatology

Atmospheric chemistry -- Continued

879.6

General works

Atmospheric ozone

Including ozone layer depletion

879.7

General works, treatises, and textbooks

879.712

Juvenile works

Observations. Data summaries

879.72

General

879.73.A-Z

By region or country, A-Z

879.8

Atmospheric carbon dioxide

879.85

Atmospheric methane

879.9.A-Z

Other chemical substances, A-Z

879.9.D55

Dimethyl sulfide

879.9.M47

Mercury

879.9.N57

Nitrogen compounds

879.9.O73

Organic compounds

879.9.P47

Peroxides

Radon see QC913.2.R3

Dynamic meteorology

Including mechanics and thermodynamics of the atmosphere
(combined)

Cf. QC930.5+ Wind

880

General works

880.2

Addresses, essays, lectures

880.4.A-Z

Special topics, A-Z

880.4.A3

Adiabatic processes

880.4.A5

Air masses

Cf. QC981.8.A5 Climatology

880.4.A8

Atmospheric circulation

880.4.B35

Baroclinicity

880.4.B55

Blocking

880.4.B65

Boundary layer

Clear air turbulence see QC880.4.T8

880.4.C64

Convection

880.4.C65

Coriolis force

880.4.C79

Cryosphere

880.4.D44

Diffusion

880.4.D5

Divergence. Convergence

Eddy flux see QC880.4.T8

880.4.E7

Equations of motion

880.4.F7

Fronts. Frontogenesis

880.4.L68

Low pressure systems

880.4.M52

Microbursts

880.4.P6

Power spectra

880.4.R6

Rossby waves

880.4.S56

Singularities

Meteorology. Climatology

Dynamic meteorology

Special topics, A-Z -- Continued

880.4.S65

Squalls. Squall lines

880.4.T5

Thermodynamics

880.4.T7

Transport phenomena

880.4.T8

Turbulence

Including clear air turbulence and eddy flux

880.4.V6

Vorticity

880.4.W3

Waves

Atmospheric shells (General)

Including composition of the atmosphere

881

General works

881.2.A-Z

Specific shells, A-Z

881.2.C4

Chemosphere

881.2.D2

D region

881.2.E2

E region

881.2.E9

Exosphere

881.2.F2

F region

881.2.H43

Heliosphere

881.2.H48

Heterosphere

881.2.H6

Homosphere

881.2.I6

Ionosphere

Magnetosphere. Magnetopause see QC809.M35

881.2.M3

Mesosphere. Mesopause

881.2.M53

Middle atmosphere

881.2.N4

Neutrosphere

881.2.O9

Ozonosphere. Ozone layer

881.2.S8

Stratosphere. Stratopause

881.2.T4

Thermosphere

881.2.T7

Troposphere. Triptopause

881.2.T75

Troposphere. Tropopause

Atmospheric pollutants

Cf. QC929.D9 Dust (Aqueous vapor)

Cf. TD881+ Air pollution

882

General works

Aerosols

882.4

Periodicals, societies, congresses, serial collections

882.42

General works, treatises, and textbooks

882.46

Technique

882.5

Dust

Cf. TD884.5 Air pollution

882.6

Smoke plumes

Cf. TD884 Air pollution

Cosmic relations. Influence on sun and moon, etc.

883

General works

883.2.A-Z

Special topics, A-Z

- Meteorology. Climatology
 Cosmic relations. Influence on sun and moon, etc.
 Special topics, A-Z -- Continued
 883.2.A8 Atmospheric tides
 883.2.C5 Climatic periodicity
 883.2.S6 Solar activity. Solar climate
 Mesometeorology
 883.4 Periodicals, societies, congresses, serial publications
 883.42 Collected works (nonserial)
 883.5 General works, treatises, and textbooks
 883.52 Addresses, essays, lectures
 Observations. Data summaries
 883.54 General works, treatises, and textbooks
 883.56.A-Z By region or country, A-Z
 Micrometeorology
 883.7 Periodicals, societies, congresses, serial publications
 883.72 Collected works (nonserial)
 883.8 General works, treatises, and textbooks
 883.82 Addresses, essays, lectures
 Observations. Data summaries
 883.84 General works, treatises, and textbooks
 883.86.A-Z By region or country, A-Z
 Paleoclimatology
 Cf. QE697+ Geology
 884 General works
 884.2.A-Z Special topics, A-Z
 884.2.C5 Climatic variations
 884.2.D4 Dendroclimatology
 Cf. QK477.2.A6 Annual rings
 884.5.A-Z By region or country, A-Z
 Atmospheric pressure
 Cf. QC934 Relation to wind
 885 General works, treatises, and textbooks
 885.2 Charts, diagrams, maps, etc.
 Observations. Data summaries
 885.4 General works
 885.6.A-Z By region or country, A-Z
 Mercury barometers and barographs
 886 General works
 887 Tables for reductions
 889 Distribution, isobars, etc.
 891 Variations and oscillations
 895 Barometric hypsometry
 896 Aneroid barometers and barographs
 Temperature and radiation

Meteorology. Climatology

Temperature and radiation -- Continued

Atmospheric temperature

Cf. QC934.2 Wind chill

Cf. TL557.A8 Aeronautical meteorology

Observations

Including distribution, isotherms

901.A1 General works, treatises, and textbooks

901.A3-Z By region or country, A-Z

902 Instruments and apparatus

Variations. Climatic changes

Including global temperature changes, etc.

902.8 Periodicals, societies, congresses, serial publications

Communication of information

902.9 General works

902.92 Information resources

902.93 Computer network resources

Including the Internet

Cf. QC981.8.G56 Global warming

903 General works, treatises, and textbooks

903.15 Juvenile works

903.2.A-Z By region or country, A-Z

905 Winter temperatures

906 Summer temperatures

(907) Temperature of the earth

see QE509

Temperature of the sea see GC160+

(909) Temperature of rivers, lakes, and springs

see GB651+

Solar radiation. Sunshine

910.2 Periodicals, societies, congresses, serial publications

910.5 Collected works (nonserial)

911 General works, treatises, and textbooks

911.2 Juvenile works

911.3 Addresses, essays, lectures

911.6 Handbooks, tables, formulas, etc.

Observations. Data summaries

911.8 General works, treatises, and textbooks

911.82.A-Z By region or country, A-Z

912 Instruments and apparatus

Including actinometers, pyrheliometers, sunshine
recorders, etc.

912.2.A-Z Special topics, A-Z

912.2.S64 Solar constant

912.3 Atmospheric radiation

Including greenhouse effect

912.5 Albedo

- Meteorology. Climatology
 Temperature and radiation -- Continued
- 912.55 Global radiation
 Atmospheric radioactivity
- 913 General works
 913.2.A-Z Special topics, A-Z
 913.2.A8 Atomic energy
 Including radioactive fallout
 Cf. TD887.R3 Radioactive pollution
- 913.2.R3 Radon
- Aqueous vapor
 Humidity. Hygrometry
- 915 General works
 Evaporation and evapotranspiration
- 915.5 General works
 Observations. Data summaries
- 915.6 General works
 915.7.A-Z By region or country, A-Z
- 916 Instruments and apparatus
 Including hydrometers, psychrometers, etc.
- 917 Handbooks, tables, formulas, etc.
- 920 Forms of water (General)
- Clouds
 Cf. TL557.C6 Aeronautical meteorology
- 920.7 Periodicals, societies, congresses, serial publications
 920.8 Collected works (nonserial)
 921 General works, treatises, and textbooks
 921.3 Pictorial works and atlases
 921.35 Juvenile works
 921.37 Addresses, essays, lectures
 Observations. Data summaries
- 921.375 General works, treatises, and textbooks
 921.377.A-Z By region or country, A-Z
- Cloud forms and classification. Formation
- 921.4 General works
 921.43.A-Z Special forms, A-Z
 921.43.C57 Cirrus
 921.43.C8 Cumulus
 921.43.N3 Nacreous (Mother-of-pearl)
 Noctilucent see QC976.N6
- 921.43.S8 Stratus
- Cloud physics
- 921.48 Periodicals, societies, congresses, serial publications
 921.5 General works, treatises, and textbooks
 921.55 Addresses, essays, lectures
 921.6.A-Z Special topics, A-Z

Meteorology. Climatology

Aqueous vapor

Clouds

Cloud physics

Special topics, A-Z -- Continued

921.6.C6

Condensation nuclei

Including cloud droplets, ice crystals, etc.

921.6.C65

Convection

921.6.D95

Dynamics

921.6.E4

Electrification

921.6.T4

Thermodynamics of clouds

Observations of altitude, motion, etc.

922

General works, treatises, and textbooks

923

Instruments and apparatus

Including ceilometer

924.A-Z

By region or country, A-Z

Rain and rainfall

Cf. BV283.F3 Prayers for rain

Cf. QE581 Erosion

Cf. S622+ Soil conservation

Cf. SD390.7.R34 Forest meteorology

Cf. TD418 Rainwater (Water supply)

924.5

Periodicals, societies, congresses, serial publications

924.6

Collected works (nonserial)

924.7

Juvenile works

925

General works, treatises, and textbooks

Observations. By region or country

North America, United States and Canada

925.1.A1

North America (General)

Canada

925.1.C2

General works

925.1.C3A-.C3Z

By region, province, etc., A-Z

United States

925.1.U2-.U799

General works

925.1.U8A-.U8Z

By region or state, A-Z

Mexico, Central America, and West Indies

925.2.A1

General works

925.2.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

South America

925.3.A1

General works

925.3.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

Europe

925.4.A1

General works

925.4.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

Meteorology. Climatology

Aqueous vapor

Rain and rainfall

Observations. By region or country -- Continued

Asia

925.5.A1

General works

925.5.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

Africa

925.6.A1

General works

925.6.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

Atlantic Ocean islands

925.65.A1

General works

925.65.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

Australia

925.7

General works

925.71.A-Z

Local, A-Z

New Zealand

925.72

General works

925.73.A-Z

Local, A-Z

Pacific Ocean islands

925.8.A1

General works

925.8.A3-Z

By country, island, or region, A-Z

Subarrange each country or island by Table Q4

925.82

Tropics

925.9

Arctic regions

925.95

Antarctica

926

Instruments and apparatus

Including rain gauges

926.2

Data processing

926.24

Raindrops

Including raindrop size

Snow. Ice. Blizzards

Cf. GB641+ Frozen ground

Cf. GB2401+ Ice on the ground

Cf. GB2601+ Snow on the ground

926.3

Periodicals, societies, congresses, serial publications

926.32

General works, treatises, and advanced textbooks

926.36

Pictorial works

926.37

Juvenile works

By region or country

United States

926.43

General works

926.44.A-Z

By region or state, A-Z

Subarrange each state by Table Q4

Meteorology. Climatology

Aqueous vapor

Snow. Ice. Blizzards

By region or country -- Continued

926.45.A-Z

Other regions or countries, A-Z

Subarrange each country by Table Q4

Acid precipitation. Acid rain

Cf. TD195.4+ Environmental pollutants

926.5

Periodicals, societies, congresses, serial publications

926.52

General works, treatises, and advanced textbooks

By region or country

United States

926.55

General works

926.56.A-Z

By region or state, A-Z

Subarrange each state by Table Q4

926.57.A-Z

Other regions or countries, A-Z

Subarrange each country by Table Q4

Weather and cloud modification

Including weather control

Cf. QC921.48+ Cloud physics

926.6

Periodicals, societies, congresses, serial publications

928

General works, treatises, and textbooks

928.4

Juvenile works

928.6

Rainmaking. Cloud seeding

By region or country

United States

928.7

General works

928.72.A-Z

By region or state, A-Z

928.74.A-Z

Other regions or countries, A-Z

929.A-Z

Other topics, A-Z

Including other forms of precipitation

929.A8

Avalanches

Blizzards see QC926.3+

929.D5

Dew formation

(929.D8)

Droughts

see QC929.2+

929.D9

Dust influences

929.F7

Fog

Cf. TL557.F6 Aeronautical meteorology

929.F8

Forest influences

Frost see QC929.H6

929.G4

Glaze

929.H15

Hail

929.H6

Hoarfrost

Ice see QC926.3+

929.R17

Rain shadows

929.R2

Rain without clouds

Meteorology. Climatology

Aqueous vapor

Other topics, A-Z -- Continued

Rainmaking see QC928.6

929.S43

Sea salt aerosols

929.S5

Showers of miscellaneous matter

929.S6

Smoke influences

(929.S7)

Snow. Ice. Blizzards

see QC926.3+

Droughts

929.2

Periodicals, societies, congresses, serial publications

929.24

General works, treatises, and advanced textbooks

929.25

Juvenile works

By region or country

United States

929.26

General works

929.27.A-Z

By region or state, A-Z

Subarrange each state by Table Q4

929.28.A-Z

Other regions or countries, A-Z

Subarrange each country by Table Q4

Wind

Cf. QC880+ Dynamic meteorology

Cf. TA654.5 Wind loads on structures

Cf. TL557.A5 Aeronautical meteorology

Cf. VK543+ Sailing

930.5

Periodicals, societies, congresses, serial publications

930.6

Collected works (nonserial)

930.7

Dictionaries and encyclopedias

931

General works, treatises, and textbooks

931.4

Juvenile works

931.6

Addresses, essays, lectures

931.8

Charts, diagrams, maps, etc.

932

Instruments and apparatus

Including anemometers

932.5

Handbooks, tables, formulas, etc.

933

Direction and velocity

934

Wind relation to atmospheric pressure

934.2

Wind in relation to atmospheric temperature. Wind chill

935

Upper currents. Jet stream

939.A-Z

Constant, local, and periodic winds, A-Z

939.B67

Bora

939.C76

Crosswinds

939.F6

Föhn, Chinook, etc.

939.G73

Gregale

939.K37

Katabatic winds

939.L37

Land and sea breezes

939.M7

Monsoons

Meteorology. Climatology

Wind

Constant, local, and periodic winds, A-Z -- Continued

939.M8

Mountain and valley winds

Including Santa Ana

939.N8

Northers

Sea and land breezes see QC939.L37

939.T7

Trade winds

Observations

940.A1

General works, treatises, and textbooks

940.A2-Z

By region or country, A-Z

e.g.

940.A8

North Atlantic Ocean

Storms. Cyclones

Cf. GC225+ Storm surges

Cf. QC926.3+ Snow. Ice. Blizzards

Cf. QC968+ Thunderstorms

Cf. TL557.S7 Aeronautical meteorology

940.6

Periodicals, societies, congresses, serial publications

941

General works, treatises, and textbooks

941.3

Juvenile works

941.8

Miscellany and curiosa

Theoretical aspects

Including dynamic meteorological aspects

942

General works

943

Application to navigation

943.5.A-Z

By region or country, A-Z

Hurricanes and other cyclonic storms

944

General works, treatises, and textbooks

944.2

Juvenile works

By geographical location

945

Atlantic Ocean and West Indies

Including tropical cyclones, northeaster storms

947

India, Pakistan, and the Indian Ocean

948

China Seas and Pacific Ocean. Far East

Including typhoons

951

Instruments and apparatus

Including barocyclonometer

Tornadoes

955

General works

955.2

Juvenile works

955.5.A-Z

By region or country, A-Z

957

Waterspouts

958

General works

959.A-Z

By region or country, A-Z

Meteorology. Climatology -- Continued

Electrical phenomena in the atmosphere

Cf. QC801+ Geophysics. Cosmic physics

Cf. QC972.6+ Radio meteorology

- 960.5 Periodicals, societies, congresses, serial publications
 961 General works, treatises, and textbooks
 961.2 Addresses, essays, lectures
 961.5 Technique. Instructions for observers
 962 Instruments and apparatus
 963 Observations of potential variation
 Lightning (General)
 Cf. GR640 Folklore
 Cf. TH9057+ Protection of buildings from lightning
 966 General works
 966.5 Juvenile works
 966.7.A-Z Special topics, A-Z
 Arresters see TK3248
 966.7.A84 Atmospheric ionization
 966.7.B3 Ball lightning
 966.7.D5 Discharge. Flash
 Thunderstorms (General)
 968 General works
 968.2 Juvenile works
 969 Miscellaneous electrical phenomena
 Auroras
 Cf. QB524+ Solar activity
 Cf. QC835 Magnetic disturbance
 Cf. QC976.A3 Airglow
 970 Periodicals, societies, congresses, serial publications
 971 General works, treatises, and textbooks
 971.3 Pictorial works and atlases
 971.4 Juvenile works
 971.5 Addresses, essays, lectures
 Observations
 971.7.A1 General works, treatises, and textbooks
 971.7.A2-Z By region or country, A-Z
 972.A-Z Special topics, A-Z
 972.L8 Luminescence
 972.L85 Luminosity
 972.P4 Photography
 972.S6 Spectra
 972.5.A-Z Special types of aurora, A-Z
 972.5.A8 Australis
 972.5.B6 Borealis
 Northern lights see QC972.5.B6
 Polaris see QC972.5.B6
 972.5.R3 Radio auroras

Meteorology. Climatology -- Continued

Radio meteorology. Microwave meteorology

- 972.6 Periodicals, societies, congresses, serial publications
 - 972.7 Collected works (nonserial)
 - 973 General works, treatises, and textbooks
 - 973.2 Addresses, essays, lectures
 - 973.3 Instruments and apparatus
 - 973.4.A-Z Special topics, A-Z
 - 973.4.A85 Atmospherics
 - 973.4.C4 Chorus. Dawn chorus
 - 973.4.I6 Ionospheric radio waves
 - Including absorption, propagation, etc.
 - 973.4.M33 Magnetospheric radio waves
 - Radio auroras see QC972.5.R3
 - 973.4.R3 Radio noise
 - 973.4.R35 Radio refractivity
 - Sferics see QC973.4.A85
 - 973.4.T76 Tropospheric radio waves
 - Including absorption, propagation, etc.
 - 973.4.V2 VLF emissions, propagation, etc.
 - 973.4.W5 Whistlers
- Radar meteorology
- 973.45 Periodicals, societies, congresses, serial publications
 - 973.5 General works, treatises, and textbooks
 - 973.6 Addresses, essays, lectures
 - Radar stations
 - General works
 - By region or country, A-Z
 - 973.62.A1 Instruments and apparatus
 - Including rawinsondes
 - 973.62.A2-Z Special topics, A-Z
 - 973.7 Echoes
 - 973.8.A-Z Refraction
 - 973.8.E3 Weather radar networks
 - 973.8.R4
 - 973.8.W4
- Meteorological optics
- 974.5 Periodicals, societies, congresses, serial publications
 - 974.6 Collected works (nonserial)
 - General works, treatises, and textbooks
 - 1801-1969
 - 1970-
 - 975 Juvenile literature
 - 975.2 Addresses, essays, lectures
 - 975.3 Handbooks, tables, formulas, etc.
 - 975.6 Observations
 - General works, treatises, and textbooks
 - By region or country, A-Z
 - 975.8
 - 975.9.A1 Special topics, A-Z
 - 975.9.A2-Z
 - 976.A-Z

Meteorology. Climatology

Meteorological optics

Special topics, A-Z -- Continued

- 976.A3 Airglow
- 976.C6 Coloration of the sky
- (976.C7) Counter glow
 - see QB761
- Gegenschein see QB761
- 976.H15 Halos
- 976.L36 Laser beam propagation
- 976.M6 Mirages
- 976.N5 Night sky
- 976.N6 Noctilucent clouds
- 976.P7 Polarization
- 976.R15 Rain band spectrum
- 976.R2 Rainbow
- 976.R4 Atmospheric refraction
- 976.S3 Scattering
- 976.T6 Transmission of the atmosphere
- 976.T7 Transparency of the atmosphere
- 976.T8 Turbidity
- 976.T9 Twilight phenomena
- 976.U4 Ultraviolet rays
- 976.V5 Visibility

Cf. TL557.V5 Aeronautical meteorology

Climatology and weather

Class here works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability

- Cf. BF353 Psychological aspects
- Cf. GF71 Human ecology
- Cf. NA2541 Architecture and climate
- Cf. QC884+ Paleoclimatology
- Cf. QH543+ Bioclimatology
- Cf. RA791+ Medical climatology
- Cf. S600+ Agricultural climatology
- Cf. TA198 Industry and weather
- Cf. TH7015 Heating and ventilation
- Cf. TL556+ Aviation climatology

- 980 Periodicals, societies, congresses, serial publications
- 980.15 Collected works (nonserial)
- Dictionaries and encyclopedias see QC854
- 980.4 Classification of climate
 - Including indexes
- Biography see QC858.A2+
- 981 General works, treatises, and textbooks

Meteorology. Climatology

Climatology and weather -- Continued

- 981.2 Popular works
- 981.3 Juvenile works
- 981.4 Addresses, essays, lectures
- 981.45 Special aspects of the subject as a whole
- 981.5 Study and teaching. Research
- 981.6 Instruments and apparatus
Including frigorimeters
- 981.7.A-Z Special types of climatology, A-Z
- 981.7.C7 Cryptoclimatology
- 981.7.D94 Dynamic climatology
- 981.7.M3 Macroclimatology
- 981.7.M4 Mesoclimatology
- 981.7.M5 Microclimatology
- Paleoclimatology see QC884+
- 981.7.S8 Synoptic climatology
- 981.7.T64 Topoclimatology
- 981.7.U7 Urban climatology
- 981.8.A-Z Special topics, A-Z
- 981.8.A5 Air masses in weather situations
Including cold and heat waves, etc.
- (981.8.C5) Climatic changes
see QC902.8+
- 981.8.C53 Climatic extremes
- Cold waves see QC981.8.A5
- 981.8.C65 Continentality
- Droughts see QC929.2+
- Forest influences see SD425
- Glaciers and climate see QC981.8.I23
- 981.8.G56 Global warming
- Heat waves see QC981.8.A5
- 981.8.I23 Ice sheets and climate. Glaciers and climate
- 981.8.S9 Sultriness
- 981.8.V65 Volcano effect on weather
- 981.8.Z6 Zones of climate
- Geographic divisions
Including observations, weather reports, charts, etc., of
special regions
- International observations
- 982 General works
- 982.5.A-Z International areas not wholly within the divisions
below. By name, A-Z
- 982.5.C64 Columbia River Watershed
- 982.5.D48 Developing countries
- 982.5.G7 Great Britain's colonies
- 982.5.G75 Great Lakes Region

- Meteorology. Climatology
 Climatology and weather
 Geographic divisions
 International observations
 International areas not wholly within the divisions
 below. By name, A-Z -- Continued
- 982.5.N67 Northern Hemisphere
 982.5.S68 Southern Hemisphere
 982.8 North America (General)
 United States
 983 General works
 984.A-Z By region or state, A-Z
 Subarrange each state by Table Q4
 Canada
 985 General works
 985.5.A-Z By region or province, A-Z
 Subarrange each province by Table Q4
 Mexico and Central America
 986.A1 General works
 986.A3-Z By country, island, or region, A-Z
 Subarrange each country or island by Table Q4
 West Indies
 987.A1 General works
 987.A3-Z By country, island, or region, A-Z
 Subarrange each country or island by Table Q4
 South America
 988.A1 General works
 988.A3-Z By country, island, or region, A-Z
 Subarrange each country or island by Table Q4
 Europe
 989.A1 General works
 989.A3-Z By country, island, or region, A-Z
 Subarrange each country or island by Table Q4
 Asia
 990.A1 General works
 990.A3-Z By country, island, or region, A-Z
 Subarrange each country or island by Table Q4
 Africa
 991.A1 General works
 991.A3-Z By country, island, or region, A-Z
 Subarrange each country or island by Table Q4
 Australia
 992.A1 General works
 992.A3-Z Local, A-Z
 New Zealand
 992.5.A1 General works
 992.5.A3-Z Local, A-Z

Meteorology. Climatology

Climatology and weather

Geographic divisions -- Continued

- 993.A-Z Pacific and other oceanic islands. By island or group of islands, A-Z
- 993.5 Tropics (General). Tropical climatology and meteorology
- 993.6 Mountains (General). Mountain climatology and meteorology
- 993.7 Arid regions. Deserts (General). Arid zone climatology
Temperate zones. Temperate climate
For works on temperate climate in specific geographic regions, see QC982-QC994.9, Land; QC994.1-QC994.9, Oceans
- 993.75 General works
- 993.8 Mediterranean climate (General)
Class here works on Mediterranean climate regions in general. For works on Mediterranean climate in specific geographic regions, see QC983-QC993; QC994.3
- Ocean areas. Maritime meteorology
Cf. GC190+ Ocean-atmosphere interaction
Cf. VK570 Ship routing
- 993.83 Periodicals, societies, congresses, serial publications
- 993.84 Observers' manuals. Handbooks, tables, formulas, etc.
Weather services see QC875.A2+
- 994 General works, treatises, and textbooks
By region
- 994.1 Atlantic Ocean (General)
- 994.2 Atlantic, North
- 994.3 Mediterranean Sea
- 994.4 Atlantic, South
- 994.5 Indian Ocean
- 994.55 Pacific Ocean (General)
- 994.6 Pacific, North
- 994.7 Pacific, South
- Polar climatology and meteorology
- 994.75 General works
- 994.8 Arctic
- 994.9 Antarctic
- Weather forecasting
Including analyses and forecasts
Cf. QC875.A2+ Weather services
Cf. QC877.5 Weather broadcasting
- 994.95 Periodicals, societies, congresses, serial publications
- 995 General works, treatises, and textbooks
- 995.3 Pictorial works and atlases
- 995.4 Popular works

- Meteorology. Climatology
- Climatology and weather
- Weather forecasting -- Continued
- Juvenile works
- Addresses, essays, lectures
- Study and teaching. Research
- Technique (General)
 - Including graphical technique
- General works
- Observers' manuals
- Types of weather forecasting
- Hydrodynamic
- Numerical
- Statistical
- Long-range
- Short-range
- Nowcasting
- Weather lore
 - Cf. GR635+ Weather lore (as folklore)
- Weather almanacs and miscellany

995.43

995.45

995.46

995.48

995.485

995.5

996

996.5

997

997.5

997.75

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999

Chemistry

For applications of chemistry in special fields, see the field, e.g.
 RS402+ Medical and pharmaceutical chemistry; S583+
 Agricultural chemistry

For chemical technology, including chemical engineering see
 TP1+

- 1 Periodicals, societies, congresses, serial publications
 Museums
- 2.A1 General works
 2.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 3 Collected works (nonserial)
 4 Encyclopedias
 5 Dictionaries
 6 Philosophy
 7 Nomenclature, terminology, notation, abbreviations
 Communication of chemical information
- 8 General works
 8.3 Information services
 8.5 Chemical literature
 9 Abstracting and indexing
 9.15 Language. Authorship
 9.2 Translating. Translating services
 9.3 Computer network resources
 Including the Internet
- History
- 11 General works
 13 History of alchemy
 14 Early works through 1800
 15 1801-
 18.A-Z By region or country, A-Z
 20 Women in chemistry. Women chemists
 For biography see QD21+
 Biography of chemists
 Cf. QD24.A2+ Alchemists
 Cf. QD903.5+ Crystallographers
- 21 Collective
 22.A-Z Individual, A-Z
 e.g.
 22.C8 Curie, Marie and Pierre
- 23 Directories
 Alchemy
 Cf. BR115.A57 Alchemy and Christianity
- 23.3 Periodicals, societies, congresses, serial publications
 23.4 Collected works (nonserial)
 23.5 Dictionaries and encyclopedias
 History see QD13

- Alchemy -- Continued
 - Biography
 - 24.A2 Collective
 - 24.A3-Z Individual, A-Z
 - 25 Early works through 1800
 - 26 General works, treatises, and textbooks
 - 26.5.A-Z Special topics, A-Z
 - 26.5.A4 Alkahest. Universal solvent
 - 26.5.E4 Elixer of life
 - Philosopher's stone see QD25
 - 27 Early works through 1761
 - General works, treatises, and advanced textbooks
 - 28 1761-1860
 - 31 1861-1969
 - 31.2 1970-2000
 - 31.3 2001-
 - Elementary textbooks
 - 33 To 2000
 - 33.2 2001-
 - 35 Juvenile works
 - 37 Popular works
 - 38 Recreations, home experiments, etc.
 - 39 Addresses, essays, lectures
 - 39.2 Special aspects of the subject as a whole
 - 39.3.A-Z Special topics, A-Z
 - 39.3.C6 Computer programs
 - 39.3.E4 Electromechanical analogies
 - 39.3.E46 Electronic data processing. Cheminformatics
 - Cf. RS418 Pharmaceutical chemistry
 - 39.3.F33 Factor analysis
 - 39.3.G73 Graph theory
 - 39.3.M3 Mathematics
 - 39.3.P45 Phlogiston
 - 39.3.S55 Simulated annealing
 - 39.3.S67 Spreadsheets
 - 39.3.S7 Statistical methods
 - 39.3.W37 Water
 - 39.5 Chemistry as a profession. Vocational guidance
 - 39.7 Social aspects
 - Study and teaching. Research
 - 40 General works
 - 41 Outlines, syllabi
 - 42 Problems, exercises, examinations
 - For programmed textbooks see QD28+
 - 43 Experiments
 - Cf. QD38 Home experiments
 - 45 Laboratory manuals

Study and teaching. Research -- Continued

By region or country

United States

47

General works

47.5.A-Z

By region or state, A-Z

Subarrange each state by Table Q7

49.A-Z

Other regions or countries, A-Z

Subarrange each country by Table Q7

Special teaching methods and aids

49.5

General works

49.6.A-Z

Special methods, A-Z

49.6.P76

Process oriented guided inquiry learning

Laboratories

51

General works

51.5.A-Z

By region or country, A-Z

Subarrange each country by Table Q6

Instruments and apparatus

53

General works

54.A-Z

Special, A-Z

54.A3

Absorption apparatus

54.C4

Centrifuges

54.E8

Eudiometer

54.F85

Fume hoods

54.L33

Labs on a chip

54.P5

Pipettes

54.S8

Sulfuric acid concentrator

54.T4

Thermostat

Techniques and operations

61

General works

63.A-Z

Special, A-Z

Cf. QD258+ Operations in organic chemistry

63.D5

Dissolution

63.D6

Distillation

Electric furnace operations (Inorganic chemistry) see

QD157

Electric furnace operations (Organic chemistry) see

QD277

63.E83

Exchange reactions

63.E88

Extraction

63.F5

Filtration

63.G5

Glass manipulation

63.H87

Hydration

63.H9

Hydrogenation

63.I55

Ion exchange

63.L3

Laser techniques

63.M3

Masking

63.N5

Nitration

- Laboratories
 - Techniques and operations
 - Special, A-Z -- Continued
 - 63.O9 Oxidation
 - 63.P4 Percolation
 - 63.R4 Reduction
 - 63.S4 Separation
 - 63.V33 Vacuum techniques
 - 63.5 Safety measures
 - 64 Waste disposal
 - 65 Handbooks, tables, formulas, etc.
 - Catalogs, pricelists, etc. see TP202
 - Analytical chemistry
 - For the analysis of special elements and their compounds
 - see QD181.A+
 - For the analysis of organic compounds see QD271+
 - Cf. QE516.3 Analytical geochemistry
- 71 Periodicals, societies, congresses, serial publications
- 71.2 Collected works (nonserial)
- 71.5 Dictionaries and encyclopedias
- 71.8 Nomenclature, terminology, notation, abbreviations
- History
 - 72 General works
 - 72.5.A-Z By region or country, A-Z
 - General works, treatises, and textbooks
 - 75 Through 1970
 - 75.2 1971-2000
 - 75.22 2001-
 - 75.25 Addresses, essays, lectures
 - 75.3 Special aspects of the subject as a whole
 - 75.4.A-Z Special topics, A-Z
 - 75.4.A8 Automation
 - 75.4.C34 Calibration
 - 75.4.C45 Chemometrics
 - 75.4.E4 Electronic data processing
 - 75.4.K54 Forensic chemistry see RA1057
 - 75.4.M36 Kinetics
 - (75.4.M36) Mathematics
 - see QD75.4.C45
 - (75.4.M4) Measurement
 - see QD75.4.C45
 - 75.4.Q34 Preparation of samples see QD75.4.S24
 - 75.4.S24 Quality control
 - 75.4.S25 Sample introduction see QD75.4.S24
 - 75.4.S24 Sample preparation. Sample introduction
 - 75.4.S25 Sampling
 - 75.4.S73 Stable isotopes

- Analytical chemistry
 - Special topics, A-Z -- Continued
 - (75.4.S8) Statistical methods
 - see QD75.4.C45
 - 75.4.U48 Ultrasonic waves
 - Study and teaching. Research
 - 75.7 General works
 - 75.9 Problems, exercises, examinations
 - 76 Laboratory manuals
 - 77 Reagents, indicators, test papers, etc.
 - 78 Handbooks, tables, formulas, etc.
 - 79.A-Z Methods of analysis (Qualitative and quantitative), A-Z
 - Chemical microscopy see QH221
 - Chromatographic analysis
 - 79.C4 General works
 - 79.C45 Gas chromatography
 - 79.C453 Ion exchange chromatography
 - 79.C4537 Ligand exchange chromatography
 - 79.C454 Liquid chromatography
 - 79.C46 Paper chromatography
 - 79.C52 Preparative layer chromatography
 - 79.C75 Radiochromatography
 - 79.C8 Thin layer chromatography
 - 79.E4 Electron diffraction
 - 79.E44 Electrophoresis
 - 79.F4 Fluorimetry
 - 79.I5 Instrumental analysis
 - 79.M5 Microchemical analysis
 - Molecular emission cavity analysis see QD79.P4
 - 79.O8 Oximetry
 - 79.P4 Phosphorimetry. Molecular emission cavity analysis
 - 79.P46 Photometry
 - Radiochemical analysis see QD605+
 - 79.S4 Sedimentation analysis
 - Spectrum analysis see QD95+
 - 79.T38 Thermal analysis
 - 79.T4 Thermogravimetry
 - Qualitative analysis
 - 81 General works, treatises, and advanced textbooks
 - 83 Elementary textbooks
 - 84 Laboratory manuals
 - 85 Tables, outlines, etc.
 - 87 Blowpipe analysis
 - Cf. QE367+ Determinative mineralogy

Analytical chemistry

Qualitative analysis -- Continued

Spectrum analysis (Qualitative and quantitative)

Class here works on the applications of spectroscopy in general analytical chemistry and theoretical works intended primarily for chemists.

For general works on the theory of spectroscopy and works intended primarily for physicists see QC450+

For compilations of spectra of elements, groups of elements, organic and inorganic compounds see QC462+

For works on the applications of spectroscopy in organic analytical chemistry see QD272.S6

Cf. CC79.S65 Spectrum analysis in archaeology

95

General works

95.5.A-Z

Special topics, A-Z

95.5.D37

Data processing

95.5.S72

Statistical methods

96.A-Z

Special methods and types of spectra, A-Z

96.A2

Absorption spectra

Including cavity-ringdown spectroscopy

96.A7

Arc spectra

96.A8

Atomic spectra

Cavity-ringdown spectroscopy see QD96.A2

96.D48

Deuteron magnetic resonance spectroscopy

96.E4

Electron paramagnetic resonance spectroscopy

96.E44

Electron spectroscopy

96.E46

Emission spectroscopy

96.F5

Flame spectroscopy

96.F56

Fluorescence spectroscopy

96.F68

Fourier transform spectroscopy

Cf. QD96.I5 Fourier transform infrared spectroscopy

Cf. QD96.N8 Fourier transform nuclear magnetic resonance spectroscopy

96.I47

Inductively coupled plasma spectrometry

Class here works on all types of spectrum analytical methods using inductively coupled plasmas

96.I5

Infrared spectroscopy

Including Fourier transform infrared spectroscopy

96.I54

Ion cyclotron resonance spectroscopy

Ion mobility spectroscopy see QD96.P62

96.L3

Laser spectroscopy

96.L85

Luminescence spectroscopy

96.M3

Mass spectroscopy

96.M33

Matrix isolation spectroscopy

96.M5

Microwave spectroscopy

Analytical chemistry

Qualitative analysis

Spectrum analysis (Qualitative and quantitative)

Special methods and types of spectra, A-Z -- Continued

- 96.M6 Mössbauer spectroscopy
- 96.M65 Molecular spectra
- 96.N8 Nuclear magnetic resonance spectroscopy
Including Fourier transform nuclear magnetic resonance spectroscopy
- 96.N84 Nuclear quadrupole resonance spectroscopy
- 96.O6 Optoacoustic spectroscopy
- 96.P5 Photoelectron spectroscopy
- 96.P54 Photothermal spectroscopy
- 96.P62 Plasma spectroscopy
Including ion mobility spectroscopy
Cf. QD96.I47 Inductively coupled plasma spectrometry
- 96.P7 Proton magnetic resonance spectroscopy
- 96.R3 Radiofrequency spectroscopy
- 96.R34 Raman spectroscopy
- 96.R4 Reflectance spectroscopy
- 96.R44 Relaxation spectroscopy
- 96.S43 Secondary ion mass spectroscopy
- 96.U4 Ultraviolet spectroscopy
- 96.V53 Vibrational spectra
- 96.X2 X-ray spectroscopy
- 98.A-Z Other special methods, A-Z
- 98.C4 Chromatography
- 98.E4 Electron microprobe
- 98.K5 Kinetic analysis
- 98.M5 Microchemical analysis
- 98.S6 Spot tests
- Quantitative analysis
- General works, treatises, and textbooks
- 101 Through 1970
- 101.2 1971-
- 111 Volumetric analysis
- 113 Colorimetric analysis
- Electrochemical analysis
- 115 General works
- 116.A-Z Special methods, A-Z
- 116.C65 Conductometric analysis
- 116.I57 Impedance spectroscopy
- 116.P64 Polarography
- 116.P68 Potentiometry
- 116.V64 Voltammetry
- 117.A-Z Other special methods, A-Z

Analytical chemistry

Quantitative analysis

Other special methods, A-Z -- Continued

- 117.C5-.C52 Chromatography
- 117.C5 General works
- 117.C515 Gas chromatography
- 117.C517 Liquid chromatography
- 117.C52 Thin layer chromatography
- 117.E4 Electron diffraction
- 117.E42 Electron microprobe. Electron probe microanalysis
- 117.E45 Electrophoresis
- 117.F5 Fluorimetry
- 117.M5 Microchemical analysis. Microchemistry
- 117.P5 Photometry
- 117.R3 Radiometry. Radiation measurement
- 117.S64 Spectrophotometry
- Spectrum analysis see QD95+
- 117.T4 Thermal analysis
- 121 Gas analysis
 - Including air analysis
 - Cf. TP754 Analysis, tests, etc. in the gas industry
- Technical analysis
- 130 Periodicals, societies, congresses, serial publications
- 131 General works, treatises, and textbooks
- Metals
- 132 General works
 - Assaying see TN550+
- 133 Iron and steel alloys
 - Alloys (General). Nonferrous alloys
- 135 General works
- 137.A-Z Special metal alloys, A-Z
 - For the analysis of metallic elements see QD181.A+
- 137.A6 Aluminum alloys
- 137.A8 Arsenic alloys
- 137.B3 Babbitt metal
- 137.C5 Chromium-iron-nickel alloys
- 137.C6 Copper alloys
- 137.F35 Ferrites (Magnetic materials)
- 137.F38 Ferroboron
- 137.F4 Ferrochromium
- 137.F44 Ferroniobium
- 137.F48 Ferrotungsten
- 137.G6 Gold alloys
 - Iron alloys (General) see QD133
- 137.M3 Magnesium alloys
- 137.N5 Nickel alloys

- Analytical chemistry
- Technical analysis
- Metals
 - Alloys (General). Nonferrous alloys
 - Special metal alloys, A-Z -- Continued
 - 137.S5 Silver alloys
 - Steel alloys see QD133
 - 137.U73 Uranium alloys
 - 137.Z5 Zinc alloys
 - 139.A-Z Other special, A-Z
 - Air see QD121
 - Air pollution see TD890
 - Carbonated beverages see TP628+
 - Cement see TP882.3
 - Ceramics see TP810
 - 139.C53 Cigarette smoke
 - Clay see TP811
 - Distilled beverages see TP609
 - 139.E4 Electrolytes
 - Fats, oils, and waxes see TP671
 - Fermentation industries see TP511
 - Food see TX545
 - Gas see QD121
 - Gas industry see TP754
 - 139.G5 Glass
 - Materials (General) see QD130+
 - Oils, fats, and waxes see TP671
 - Oils (Petroleum) see TP691
 - Plastics see TP1140
 - 139.P6 Polymers
 - 139.S44 Semiconductors
 - Sewage see TD735
 - 139.S5 Silicon organic compounds
 - (139.T5) Textiles
 - see TS1449
 - 139.T7 Trace elements
 - Water see QD142
 - Water supply see TD380+
 - Wine see TP548.5.A5
- 142 Water analysis
 - Cf. TD380+ Water supply
- Inorganic chemistry
 - Cf. QD475 Physical inorganic chemistry
 - Cf. QE351+ Mineralogy
- 146 Periodicals, societies, congresses, serial publications
- 147 Collected works (nonserial)
- 148 Dictionaries and encyclopedias

Inorganic chemistry -- Continued

- 149 Nomenclature, terminology, notation, abbreviations
History
- 149.5 General works
- 149.7.A-Z By region or country, A-Z
- 150 Early works through 1800
General works, treatises, and advanced textbooks
- 151 1801-1969
- 151.2 1970-2000
- 151.3 2001-
- 151.5 Elementary textbooks
- 152 Addresses, essays, lectures
- 152.3 Special aspects of the subject as a whole
- 152.5.A-Z Special topics, A-Z
- 152.5.D46 Density functionals
- 152.5.M38 Mathematics
Reaction mechanisms see QD502.5
- Study and teaching. Research
- 153 General works
- 153.5 Outlines, syllabi, etc
- 154 Problems, exercises, examinations
- 155 Laboratory manuals
- 155.5 Handbooks, tables, formulas, etc.
- 156 Inorganic synthesis
- 157 Electric furnace operations
Cf. QD277 Electric furnace operations (Organic)
- Nonmetals
- 161 General works
- 162 Gases
- 163 Chemistry of the air
Cf. TD881+ Air pollution
- 165 Halogens: Bromine, chlorine, fluorine, iodine
- 167 Inorganic acids
Cf. QD477 General theory of acids and bases
- 169.A-Z Other, A-Z
- 169.C5 Chalcogenides
Heavy water see QD169.W3
- 169.W3 Water
Cf. GB855+ Natural water chemistry
- Metals
- Cf. TN600+ Metallurgy
- 171 General works, treatises, and textbooks
- 172.A-Z By group, A-Z
- 172.A3 Actinide elements
- 172.A4 Alkali metals
- 172.A42 Alkaline earth metals
- 172.I7 Iron group

Inorganic chemistry

Metals

By group, A-Z -- Continued

- 172.M4 Magnesium group
 172.P8 Platinum group
 172.P88 Precious metals
 172.R2 Rare earth metals
 172.S6 Spinel group
 172.S93 Superheavy elements
 Cf. QC796.2 Nuclear physics
 172.T52 Titanium group
 172.T6 Transition metals
 172.T65 Transplutonium elements
 172.T7 Transuranium elements
 181.A-Z Special elements. By chemical symbol, A-Z (Table Q1)

Class here works on the origin, properties, preparation, reactions, isotopes, and analytical chemistry of individual elements and their inorganic compounds.

For the determination of atomic and molecular weights see QD464.A+

Salts

- 189 General works
 191 Double salts
 193 Complex salts
 194 Oxysalts
 196 Inorganic polymers and polymerization
 197 Cyclic compounds

Organic chemistry

Cf. QD476 Physical organic chemistry
 Cf. QD478 Solids. Solid state chemistry (Inorganic and organic)

- 241 Periodicals, societies, congresses, serial collections
 (243) Yearbooks
 see QD241
 245 Collected works (nonserial)
 246 Dictionaries and encyclopedias
 History
 248 General works
 248.5.A-Z By region or country, A-Z
 General works, treatises, and advanced textbooks
 251 Through 1970
 251.2 1971-2000
 251.3 2001-
 Elementary textbooks
 253 To 2000
 253.2 2001-

- Organic chemistry -- Continued
Nomenclature, terminology, notation, abbreviations see
QD291
- 254 Classification
255 Addresses, essays, lectures
255.4 Special aspects of the subject as a whole
255.5.A-Z Special topics, A-Z
255.5.E4 Electronic data processing
255.5.M35 Mathematics
255.5.R33 Radiation effects
Reaction mechanisms see QD502.5
Study and teaching. Research
256 General works
256.5 Outlines, syllabi
257 Problems, exercises, examinations
257.5 Experiments
257.7 Handbooks, tables, formulas, etc.
Operations in organic chemistry
258 General works
261 Laboratory manuals
262 Organic synthesis
Including general works on combinatorial chemistry
For works on pharmaceutical aspects of combinatorial
chemistry see RS419
Organic analysis
Class here general works on the analysis of organic
compounds
For the analysis of specific organic compounds or groups of
compounds, see QD301
For works on the analysis of both organic and inorganic
compounds see QD71+
- 271.A1 Periodicals, societies, congresses, serial publications
271.A2-Z General works, treatises, and textbooks
Reagents, indicators, test papers, etc.
271.3 General works
271.35.A-Z Special topics, A-Z
271.35.E54 Electrophiles. Superelectrophiles
271.4 Qualitative analysis
Prefer QD272 for special methods in qualitative analysis
271.7 Quantitative analysis
Prefer QD272 for special methods in quantitative analysis
272.A-Z Special methods of analysis (Qualitative and
quantitative), A-Z
Chromatography
272.C4 General works
272.C44 Gas chromatography
272.C444 Gel permeation chromatography

- Organic chemistry
 - Operations in organic chemistry
 - Organic analysis
 - Special methods of analysis (Qualitative and quantitative), A-Z
 - Chromatography -- Continued
 - Liquid chromatography
 - Thin layer chromatography
 - Colorimetric analysis
 - Electrochemical analysis
 - Electrophoresis
 - Enzymatic analysis
 - Microchemical analysis
 - Photometry
 - Spectrophotometry
 - Spectrum analysis
 - Works on the application of spectroscopy in general or inorganic analytical chemistry are classed in QD95
 - For compilations of spectra see QC462+
- 272.C447
- 272.C45
- 272.C6
- 272.E4
- 272.E43
- 272.E5
- 272.M5
- 272.P5
- 272.S57
- 272.S6
- 272.T45
- 272.V6
- 273
- 275
- 277
- 281.A-Z
- 281.A2
- 281.A5
- 281.A6
- 281.A63
- 281.B7
- 281.C3
- 281.C5
- 281.C7
- 281.D4
- 281.D47
- 281.D5
- 281.E4
- 281.F5
- 281.F55
- 281.F7
- 281.H3
- 281.H78
- 281.H79
- 281.H8
- Thermal analysis
- Volumetric analysis
- Electrochemistry of organic compounds
 - Cf. QP517.B53 Bioelectrochemistry
- Organic photochemistry
 - Cf. QP517.P45 Photobiochemistry
- Electric furnace operations
- Other special, A-Z
 - Acylation
 - Alkylation
 - Amination
 - Ammonolysis
 - Bromination
 - Catalysis
 - Chlorination
 - Condensation
 - Cyclization see QD281.R5
 - Dehydrogenation
 - Dialysis
 - Distillation
 - Elimination reactions
 - Flotation
 - Fluorination
 - Fragmentation reactions
 - Halogenation
 - Hydroboration
 - Hydroformylation
 - Hydrogenation

- Organic chemistry
 - Operations in organic chemistry
 - Other special, A-Z -- Continued
 - 281.H83 Hydrolysis
 - 281.H84 Hydrosilylation
 - 281.H85 Hydroxylation
 - 281.I7 Isotopic exchange reactions
 - 281.M48 Methylation
 - 281.N5 Nitration
 - 281.O9 Oxidation
 - 281.O95 Ozonolysis. Ozonization
 - 281.P46 Phosphorylation
 - 281.P6 Polymerization. Telomerization
 - 281.P9 Pyrolysis
 - 281.Q5 Quinoidation
 - 281.R35 Rearrangement reactions. Rearrangements
 - 281.R4 Reduction
 - 281.R5 Ring formation
 - Including ring breaking, enlargement, and closure, and ring-opening polymerization
 - 281.S5 Silylation
 - 281.S6 Solvolysis
 - 281.S67 Substitution reactions
 - 281.S7 Sulfonation
 - Telomerization see QD281.P6
- 291 Nomenclature, terminology, notation, abbreviations
- Aliphatic compounds
- 300 Periodicals, societies, congresses, serial publications
- 301 General works, treatises, and textbooks
- 302 Special aspects of the subject as a whole
- 305.A-Z Special groups, A-Z
 - Including works on both aliphatic and aromatic aspects of functional groups
 - For works on special groups of aromatic compounds only see QD341.A+
- 305.A2 Acids and esters
- 305.A4 Alcohols
- 305.A6 Aldehydes and other carbonyl compounds
 - For ketones see QD305.K2
- 305.A7 Amides and hydrazides
 - Cf. QD315 Urea
- Amino acids see QD431+
- 305.A8 Amino compounds
- 305.A9 Azo, hydrazo, and diazo compounds
- 305.C3 Carbanions and carbonium ions, free radicals, ylides
- 305.E7 Ethers and oxides

Organic chemistry

Aliphatic compounds

Special groups, A-Z -- Continued

305.F2

Fats and fatty oils

Cf. QP751+ Animal biochemistry

Cf. TP669+ Chemical technology

Free radicals see QD305.C3

Glycols see QD305.A4

305.H15

Halogen compounds

Hydrocarbons

305.H5

General works

305.H6

Alkanes (Paraffins)

305.H7

Alkenes (Olefins)

Cf. TP248.A554 Chemical technology

305.H8

Alkynes (Acetylene, etc.)

305.H9

Alicyclic compounds (Non-aromatic compounds with ring structure)

305.I6

Imides, imidoesters, etc.

305.K2

Ketones, ketenes, and oximes

305.N7

Nitriles and cyanogen derivatives

305.N8

Nitro and nitroso compounds

305.N84

Nitrogen derivatives (General)

305.P46

Phosphorus derivatives (General)

Radicals see QD305.C3

305.S54

Silicon compounds

305.S83

Sulfones

305.S84

Sulfur derivatives (General)

305.T45

Thio compounds

Ylides see QD305.C3

315

Urea and related compounds

Cf. QP801.U7 Animal biochemistry

Carbohydrates

Including sugars, starch, etc.

Cf. QP701+ Animal biochemistry

Cf. TP375+ Sugar manufacture

Cf. TP415+ Starch

320

Periodicals, societies, congresses, serial publications

321

General works, treatises, and textbooks

322.A-Z

Special topics, A-Z

322.A52

Analysis

322.S95

Synthesis

323

Cellulose

Including hemicellulose

325

Glycosides

Including glucosides, mannosides, and galactosides

327

Tannins

Organic chemistry -- Continued

Aromatic compounds

Cf. QD390+ Condensed benzene rings

Cf. QD399+ Heterocyclic compounds

- 330 Periodicals, societies, congresses, serial publications
331 General works, treatises, and textbooks
335 Special aspects of the subject as a whole
341.A-Z Special groups, A-Z
341.A2 Acids and esters
341.A4 Alcohols
341.A6 Aldehydes and other carbonyl compounds
For ketones see QD341.K2
341.A7 Amides and hydrazides
Amino acids see QD431+
341.A8 Amino compounds
341.A83 Annulenes
341.A9 Azo, hydrazo, and diazo compounds
Benzene see QD341.H9
341.E7 Ethers and oxides
341.H8 Halogen compounds
341.H9 Hydrocarbons, benzene, etc.
341.I6 Imino compounds
341.K2 Ketones
341.N7 Nitriles and cyanogen derivatives
341.N8 Nitro and nitroso compounds
341.N83 Nitrogen derivatives (General)
341.P5 Phenols
341.P6 Pseudophenols
341.Q4 Quinones
341.S3 Sulfur derivatives (General)
341.S6 Sulfoxides and sulfones
341.S8 Sulfonium compounds

Antibiotics

Cf. QP801.A63 Animal biochemistry

Cf. RM265+ Therapeutics

- 375 General works, treatises, and textbooks
377.A-Z Special substances, A-Z
377.C4 Cephalosporin
377.C5 Chloromycetin
377.P4 Penicillin
377.P55 Pimaricin
377.S8 Streptomycin
377.S85 Streptothricin
377.T45 Tetracycline
377.V5 Viomycin

Organic chemistry -- Continued

Polymers. Macromolecules

Class here general works on chemical and physical properties of polymers

For works on physical properties see QC173.4.P65

Cf. QD139.P6 Technical analysis

Cf. QD196 Inorganic polymers

Cf. QD281.P6 Polymerization (Organic chemistry)

Cf. QD399+ Macrocyclic compounds

Cf. TP156.P6 Polymerization (Chemical engineering)

Cf. TP1080+ Polymer technology

- 380 Periodicals, societies, congresses, serial publications
- 380.3 Dictionaries and encyclopedias
- 380.6 Nomenclature, terminology, notation, abbreviations
- 380.7 Classification
- 381 General works, treatises, and textbooks
- 381.3 Juvenile works
- 381.7 Addresses, essays, lectures
- 381.8 Special aspects of the subject as a whole
- 381.9.A-Z Special topics, A-Z
- 381.9.A25 Acoustic properties
- 381.9.C64 Conformational analysis
- 381.9.D47 Deterioration
- 381.9.E38 Electric properties
- 381.9.E4 Electronic data processing
- Fractionation see QD381.9.S44
- 381.9.M3 Mathematical models
- 381.9.M64 Molecular weights
- 381.9.O66 Optical properties
- 381.9.P45 Permeability
- 381.9.P56 Photochemistry
- 381.9.R3 Radiation effects
- 381.9.R43 Reduced gravity effects
- 381.9.R48 Rheology
- Ring-opening polymerization see QD281.R5
- 381.9.S44 Separation. Fractionation
- 381.9.S65 Solubility and solutions
- 381.9.S87 Structure
- 381.9.S97 Surfaces and interfaces
- 381.9.T54 Thermal properties
- 382.A-Z Special types, A-Z
- 382.A47 Amphiphiles
- 382.B47 Biomimetic polymers
- 382.B5 Block copolymers
- 382.B73 Branched polymers
- Including star-branched polymers and hyper-branched polymers

Organic chemistry

Polymers. Macromolecules

Special types, A-Z -- Continued

- 382.C66 Conducting polymers. Conjugated polymers
382.C665 Conjugated oligomers
Including oligothiophenes
Conjugated polymers see QD382.C66
- 382.C67 Coordination polymers
Crosslinked polymers see QD382.P67
- 382.C78 Crystalline polymers
- 382.E48 Emulsion polymers
- 382.F55 Fluorescent polymers
- 382.G7 Graft copolymers
- 382.H4 Heat resistant polymers
- 382.H48 Heterochain polymers
Hyper-branched polymers see QD382.B73
- 382.I43 Imprinted polymers
- 382.I45 Ionomers
Metallofoldamers see QD382.O43
- 382.O43 Oligomers
Including metallofoldamers
Photochromic polymers see QD382.P45
- 382.P45 Photopolymers. Photochromic polymers
- 382.P64 Polyelectrolytes
Including polyampholytes
Polymer colloids see QD549.2.P64
Polymer liquid crystals see QD923
- 382.P67 Polymer networks. Crosslinked polymers
- 382.R43 Reactive polymers
- 382.S4 Semiconductors
Star-branched polymers see QD382.B73
- 382.T44 Telechelic polymers
- 382.T46 Thermoresponsive polymers
- 382.W3 Water-soluble polymers
- 383.A-Z Special substances, A-Z
- 383.A27 Acrylic polymers
- 383.A55 Amine polymers
- 383.A95 Azo polymers
- 383.B67 Boron organic polymers
- 383.E66 Epoxy polymers
- 383.F48 Fluoropolymers
- 383.F84 Fullerene polymers
- 383.G57 Glutamic acid polymers
Methacrylate polymers see QD383.A27
- 383.S54 Silicon polymers
- 383.V56 Vinyl polymers
- 385 Laboratory manuals

Organic chemistry

Polymers. Macromolecules -- Continued

388 Handbooks, tables, formulas, etc.

Condensed benzene rings

390 General works, treatises, and textbooks

390.3 Special aspects of the subject as a whole

391 Naphthalene and naphthalene derivatives

393 Anthracene and anthracene derivatives

395 Phenanthrene and phenanthrene derivatives

Heterocyclic and macrocyclic chemistry and compounds

399 Periodicals, societies, congresses, serial publications

400 General works, treatises, and textbooks

400.3 Special aspects of the subject as a whole

400.5.A-Z Special topics, A-Z

400.5.S95 Synthesis

401 Cyclic compounds containing N

403 Cyclic compounds containing S

405 Cyclic compounds containing O

406 Cyclic compounds containing P

Organometallic chemistry and compounds

Cf. QD882 Supramolecular organometallic chemistry

410 Periodicals, societies, congresses, serial publications

411 General works, treatises, and textbooks

411.5 Addresses, essays, lectures

411.7.A-Z Special topics, A-Z

411.7.A53 Analysis

411.7.B37 Barbier reactions

411.7.S94 Synthesis

411.7.T47 Thermal properties

411.8.A-Z Special groups of substances, A-Z

411.8.A47 Alkoxides

Including aryloxides

411.8.R37 Rare earth metals

411.8.T73 Transition metals

412.A-Z Special compounds. By chemical symbol of added element, A-Z (Table Q1)

412.5 Handbooks, tables, formulas, etc.

Biochemistry

Class here works on chemical aspects of biological materials

Cf. QD476.2 Physical biochemistry

Cf. QH345 General biochemistry of plants and animals

Cf. QK861+ Plant biochemistry

Cf. QP501+ Animal biochemistry

415.A1 Periodicals, societies, congresses, serial publications

415.A2 Collected works (nonserial)

415.A25 Dictionaries and encyclopedias

415.A3-Z General works, treatises, and textbooks

Organic chemistry

Biochemistry -- Continued

- 415.2 Addresses, essays, lectures
 - 415.3 Problems, exercises, examinations
 - 415.5 Laboratory manuals
 - 415.7 Handbooks, tables, formulas, etc.
- Antibiotics see QD375+
- Terpenes, camphors, etc. Essential oils
Cf. TP958+ Essences (Chemical technology)
- 416.A1 Periodicals, societies, congresses, serial publications
 - 416.A3-Z General works, treatises, and textbooks
 - 416.2 Addresses, essays, lectures
 - 416.3 Problems, exercises, examinations
 - 416.5 Laboratory manuals
 - 416.7 Handbooks, tables, formulas, etc.

Gums and resins

- Cf. TP977+ Chemical technology
Cf. TP1101+ Plastic materials for synthetic gums and resins
- 419.A1 Periodicals, societies, congresses, serial publications
 - 419.A3-Z General works, treatises, and textbooks
 - 419.2 Addresses, essays, lectures
 - 419.3 Problems, exercises, examinations
 - 419.5 Laboratory manuals
 - 419.7 Handbooks, tables, formulas, etc.

Alkaloids

- Cf. QK898.A4 Plant constituent
Cf. RM666.A4 Therapeutics
Cf. RS431.A53 Pharmaceutical chemistry
- 421.A1 Periodicals, societies, congresses, serial publications
 - 421.A3-Z General works, treatises, and textbooks
 - 421.2 Addresses, essays, lectures
 - 421.3 Problems, exercises, examinations
 - 421.5 Laboratory manuals
 - 421.7 Handbooks, tables, formulas, etc.

Steroids

- Cf. QP752.S7 Animal biochemistry
Cf. RS163.S8 Materia medica
- 426.A1 Periodicals, societies, congresses, serial publications
 - 426.A3-Z General works, treatises, and textbooks
 - 426.2 Addresses, essays, lectures
 - 426.3 Problems, exercises, examinations
 - 426.5 Laboratory manuals
 - 426.7 Handbooks, tables, formulas, etc.

Proteins, peptides, amino acids, etc.

- Cf. QP551+ Animal biochemistry
Cf. TX553.P7 Special constituents of food

Organic chemistry

Biochemistry

Proteins, peptides, amino acids, etc. -- Continued

- 431.A1 Periodicals, societies, congresses, serial publications
- 431.A3-Z General works, treatises, and textbooks
- 431.2 Addresses, essays, lectures
- 431.25.A-Z Special topics, A-Z
 - 431.25.A53 Analysis
 - 431.25.D47 Derivatives
 - 431.25.S85 Structure
 - 431.25.S93 Synthesis
- 431.3 Problems, exercises, examinations
- 431.5 Laboratory manuals
- 431.7 Handbooks, tables, formulas, etc.

Nucleic acids

- 433.A1 Periodicals, societies, congresses, serial publications
- 433.A3-Z General works, treatises, and textbooks
- 433.5.A-Z Special topics, A-Z
 - 433.5.S77 Structure
- 434 Ribonucleic acids
- 435 Deoxyribonucleic acids
- 436.A-Z Other related substances, A-Z
 - 436.N85 Nucleotides
- 441

Colored compounds

Including phthaleins, eosin, animal and plant pigments
Cf. QK899 Botany
Cf. QP670+ Animal biochemistry
Cf. TP909.2+ Chemical technology

Physical and theoretical chemistry

Cf. QC170+ Constitution and properties of matter

- 450 Periodicals, societies, congresses, serial publications
- 450.2 Collected works (nonserial)
- 451 Dictionaries and encyclopedias
- 451.5 Nomenclature, terminology, notation, abbreviations
- History
 - 452 General works
 - 452.5.A-Z By region or country, A-Z
 - General works, treatises, and textbooks
 - 453 Through 1970
 - 453.2 1971-2000
 - 453.3 2001-
 - 455 Addresses, essays, lectures
 - 455.2 Special aspects of the subject as a whole
 - 455.3.A-Z Special topics, A-Z
 - 455.3.C64 Computer simulation
 - 455.3.E4 Electronic data processing
 - 455.3.F73 Fractals

- Physical and theoretical chemistry
 - Special topics, A-Z -- Continued
 - 455.3.G7 Graphic methods
 - 455.3.G75 Group theory
 - 455.3.L53 Lie algebras
 - 455.3.M3 Mathematics
 - 455.3.T65 Topology
 - Study and teaching. Research
 - 455.5 General works
 - 455.7 Outlines, syllabi
 - 456 Problems, exercises, examinations
 - 457 Laboratory manuals
 - 457.2 Computer-assisted instruction
 - 458 Handbooks, tables, formulas, etc.
 - 461 Atomic and molecular theory and structure. Laws of chemical combination and chemical bonds. Molecular dimensions
Cf. QD469 Valence
 - 461.5 Excited state chemistry
 - Quantum chemistry
 - 462.A1 Periodicals, societies, congresses, serial publications
 - 462.A3-Z General works, treatises, and textbooks
 - 462.5 Addresses, essays, lectures
 - 462.6.A-Z Special topics, A-Z
 - 462.6.D38 Data processing
 - 462.6.D45 Density functionals
 - 462.6.D46 Density matrices
 - 462.6.E53 Energy levels
 - 462.6.M36 Many-body methods
 - 462.6.M39 Mathematics
 - 462.6.M66 Monte Carlo method
 - 462.6.P68 Potential energy surfaces
 - 462.6.R42 Relativistic effects
 - 462.6.R44 Relaxation phenomena
 - 462.6.S25 Scaling
 - 462.6.S94 Symmetry groups
 - 462.7 Problems, exercises, examinations
 - 462.9 Handbooks, tables, formulas, etc.
 - Atomic and molecular weights
 - 463 General works, treatises, and textbooks
 - 464.A-Z Individual elements and their compounds. By chemical symbol of principal element, A-Z (Table Q1)
 - Chemical elements
 - Nature and properties
 - 466 General works

Physical and theoretical chemistry

Chemical elements

Nature and properties -- Continued

466.5

Isotopes

For isotopes of individual elements see QD181.A+

Cf. QD601+ Radiochemistry

Cf. TK9400+ Radioisotopes in nuclear engineering

467

Classification. Periodic law

469

Valence

Cf. QC176.8.V34 Valence fluctuations

470

Allotropy

471

Chemical compounds - Structure and formulas

Including isomerism, mesomerism, tautomerism

Cf. QD481 Stereochemistry

473

Physical properties in relation to structure

Including odor, color, and optical properties

Cf. QD441 Colored organic compounds

Cf. QD931+ Physical properties of crystals

474

Complex compounds

Including clathrate and coordination compounds, chelates, and hydrates

Cf. QD410+ Organometallic compounds

475

Physical inorganic chemistry

476

Physical organic chemistry

476.2

Physical biochemistry

477

Acids and bases (General theory)

478

Solids. Solid state chemistry (Inorganic and organic)

Cf. QC176+ Solid state physics

Cf. QD506+ Surface chemistry

Cf. QD901+ Crystallography

Cf. TN689+ Physical metallurgy

480

Models of atoms, molecules, or chemical compounds

481

Stereochemistry. Molecular rotation

Cf. QP517.S83 Biochemistry

Conditions and laws of chemical reactions

501

General works

Chemical kinetics and mechanisms

502

General works

502.2

Nonlinear chemical kinetics. Oscillating chemical reactions

502.5

Reaction mechanisms

Including inorganic and organic mechanisms

503

Chemical equilibrium. Phase rule, etc.

504

Thermodynamics

505

Catalysis

Cf. QD569 Electrocatalysis

Cf. QD716.P45 Photocatalysis

- Physical and theoretical chemistry
 Conditions and laws of chemical reactions -- Continued
- 505.5 Chemical affinity and reactivity
- 505.8 Chemiluminescence
- Surface chemistry
- 506.A1 Periodicals, societies, congresses, serial publications
- 506.A3-Z General works, treatises, and textbooks
- 508 Addresses, essays, lectures
- 509.A-Z Special topics, A-Z
- 509.G37 Gas-solid interfaces
- 509.L54 Liquid-liquid interfaces
- Liquid-solid interfaces see QD509.S65
- 509.M46 Metallic oxides
- 509.M65 Monomolecular films
- 509.S65 Solid-liquid interfaces
- Thermochemistry
- Cf. QC301+ Change of state (Physics)
- Cf. QD79.T38 Thermal analysis (Analytical chemistry)
- Cf. QD117.T4 Thermal analysis, Quantitative
- Cf. QD157 Electric furnace operations (Inorganic chemistry)
- Cf. QD277 Electric furnace operations (Organic chemistry)
- 510 Periodicals, societies, congresses, serial publications
- 511 General works, treatises, and textbooks
- 511.3 Addresses, essays, lectures
- 511.7 Problems, exercises, examinations
- 511.8 Handbooks, tables, formulas, etc.
- 515 Chemistry of high and low temperatures
- 516 Heat of formation, combustion, flame, explosion
- Cf. TH9446.3+ Flammability of materials
- Cf. TJ254.5+ Combustion engineering
- 517 Dissociation
- 518 Melting and boiling points
- 526 Fractional distillation
- Cf. QD63.D6 Special operations in chemistry
- Cf. QD281.D5 Operations in organic chemistry
- Cf. TP156.D5 Chemical engineering processes
- Cf. TP589+ Distilling industries
- 531 Manipulation of gases and vapors
- Cf. TP242+ Chemical technology of gases
- 533 Vapor densities
- 535 Liquefaction of gases
- Cf. TP243 Manufacture of liquefied gases
- 536 Research at low temperatures
- Cf. TP480+ Low temperature engineering
- 538 Chemistry of high and low pressures

Physical and theoretical chemistry -- Continued

Theory of solution

Cf. QC182+ Special properties of matter

Cf. QD565 Electrolyte solutions

540 Periodicals, societies, congresses, serial publications

541 General works, treatises, and textbooks

543 Solubility, osmotic pressure, diffusion, etc.

Solvents

544 General works

544.3 Aqueous

544.5 Nonaqueous

Cf. TP247.5 Technology of organic solvents

545 Freezing points and vapor pressures

547 Flocculation, precipitation, adsorption, etc.

548 Supersaturated solutions. Crystallization, etc.

Cf. QD921+ Crystal structure and growth

Colloids, sols, gels

Cf. QP525 Animal biochemistry

Cf. S593.3 Soil colloids

549 General works

549.2.A-Z Special topics, A-Z

549.2.C64 Colloidal crystals

549.2.C66 Complex fluids

549.2.P64 Polymer colloids

Electrochemistry. Electrolysis

Cf. QC610.3+ Electric conductivity, electromotive force

Cf. QD115+ Electrochemical analysis

Cf. QD272.E4 Electrochemical analysis of organic compounds

Cf. QD273 Electrochemistry of organic compounds

Cf. QD880 Electrochemistry of supramolecular compounds

Cf. QP517.B53 Bioelectrochemistry

Cf. TP250+ Industrial electrochemistry

551 Periodicals, societies, congresses, serial publications

552 Collected works (nonserial)

552.5 Dictionaries and encyclopedias

553 General works, treatises, and textbooks

554 Popular works

554.5 Juvenile works

555 Addresses, essays, lectures

555.5 Special aspects of the subject as a whole

555.6.A-Z Special topics, A-Z

555.6.E4 Electronic data processing

555.6.G74 Green's functions

555.6.I58 Interfaces

555.6.L37 Laser electrochemistry

- Physical and theoretical chemistry
 Electrochemistry. Electrolysis
 Special topics, A-Z -- Continued
- 555.6.M36 Mathematical models
 - 555.6.N65 Nonaqueous solvents
 - 555.6.S65 Spectrum analysis
 - 555.8 Study and teaching. Research
 - 556 Problems, exercises, examinations
 - 557 Laboratory manuals
 - Electrochemical laboratories
 - 558 General works
 - 558.2.A-Z By region or country, A-Z
 - Subarrange each country by Table Q6
 - 559 Instruments and apparatus
 - 560 Handbooks, tables, formulas, etc.
 - Ions and ionization
 - 561 General works
 - 562.A-Z Special topics, A-Z
 - 562.A54 Anion separation
 - 562.A75 Aqua ions
 - Dissociation see QD562.I65
 - 562.E44 Electromotive force
 - 562.E45 Electrophoresis
 - 562.H93 Hydrogen-ion concentration
 - 562.I63 Ion exchange. Ion exchange membranes
 - 562.I65 Ionization. Dissociation
 - 562.M54 Migration and velocity
 - Photodissociation see QD716.P48
 - Photoionization see QD716.P48
 - Velocity see QD562.M54
 - 564 Electric double layer
 - 565 Electrolytes, electrolyte solutions
 - Cf. TS672 Plating baths
 - 568 Electrolytic cells
 - Cf. TK2901+ Electric power production from chemical action
 - 569 Electrocatalysis
 - 571 Electrode phenomena. Polarization, etc.
 - 572.A-Z Special electrodes, A-Z
 - 572.A65 Alkali metal
 - 572.C37 Carbon
 - 572.G53 Glass
 - 572.H94 Hydrides
 - 572.I66 Ion selective
 - 572.I76 Iron
 - 572.M34 Magnesium
 - 572.N53 Nickel

- Physical and theoretical chemistry
- Electrochemistry. Electrolysis
- Special electrodes, A-Z -- Continued
- 572.O85 Oxide
- 572.O88 Oxygen
- 572.S95 Sulfur
- 575.A-Z Special groups of substances, A-Z
- 575.C65 Complex compounds
- 575.G53 Glass
- 575.P67 Porous materials
- 576.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
- 578 Photoelectrochemistry
- 581 Plasma chemistry
- Cf. TP156.P5 Industrial plasma chemistry
- 591 Magnetochemistry
- Cf. QD940 Magnetic properties of crystals
- Radiochemistry. Nuclear chemistry
- Cf. QC794.95+ Radioactivity, radioactive substances in nuclear physics
- Cf. TK9350 Nuclear engineering
- Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry
- 601.A1 Periodicals, societies, congresses, serial publications
- 601.A2 Collected works (nonserial)
- General works, treatises, and textbooks
- 601.A4-Z Through 1970
- 601.2 1971-2000
- 601.3 2001-
- 602 Addresses, essays, lectures
- 602.4 Special aspects of the subject as a whole
- 602.5.A-Z Special topics, A-Z
- 602.5.E4 Electronic data processing
- 603.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
- Study and teaching. Research
- 604 General works
- 604.3 Problems, exercises, examinations
- 604.5 Experiments
- 604.7 Laboratory manuals
- Radiochemical laboratories. Hot laboratories
- Cf. QC788+ Nuclear physics research laboratories and projects
- 604.8 General works
- 604.85.A-Z By region or country, A-Z
- Subarrange each country by Table Q6
- 604.9 Handbooks, tables, formulas, etc.

- Physical and theoretical chemistry
Radiochemistry. Nuclear chemistry -- Continued
Radiochemical analysis
- 605 General works
606 Radioactivation analysis. Nuclear activation analysis
607 Tracer techniques
For applications in special fields, see the field, e.g.
QH324.3 Biology
- 608 Isotope dilution analysis
Radiation chemistry
Cf. QC474+ Radiation physics
Cf. TA418.6 Radiation effects and tests of materials
Cf. TP249 Industrial radiochemistry. Industrial radiation
chemistry
- 625 Periodicals, societies, congresses, serial publications
626 Collected works (nonserial)
General works, treatises, and textbooks
- 635 Through 1970
636 1971-
- 641 Addresses, essays, lectures
642 Special aspects of the subject as a whole
643.A-Z Special topics, A-Z
643.C5 Chemical dosimetry
643.P84 Pulse radiolysis
- Study and teaching. Research
- 646 General works
646.3 Problems, exercises, examinations
646.5 Experiments
646.7 Laboratory manuals
649 Handbooks, tables, formulas, etc.
- 651.A-Z Special substances. By name, A-Z
651.A36 Actinide elements
651.A4 Alcohol
651.A45 Ammonia
651.C37 Carbohydrates
651.H93 Hydrocarbons
651.M38 Mercapto compounds. Thiols
651.M4 Methanol
651.N5 Nitrous oxide
651.P6 Polymers
Thiols see QD651.M38
- 651.W3 Water
655 Particular types of radiation and chemical reaction, e.g. x-
rays (not A-Z)

Physical and theoretical chemistry -- Continued

Photochemistry

- Cf. QD275 Organic photochemistry
- Cf. QD578 Photoelectrochemistry
- Cf. QP517.P45 Photobiochemistry
- Cf. TP249.5 Industrial photochemistry
- Cf. TR200+ Photographic chemistry

- 701 Periodicals, societies, congresses, serial publications
- General works, treatises, and textbooks
- 708 Through 1970
- 708.2 1971-
- 714 Addresses, essays, lectures
- 715 Special aspects of the subject as a whole
- 716.A-Z Special topics, A-Z
- 716.F54 Flash photolysis
- 716.L37 Laser photochemistry
 - Including femtochemistry
- 716.O95 Oxidation-reduction
- 716.P45 Photocatalysis
- 716.P47 Photochromism
- 716.P48 Photodissociation. Photoionization
 - Class here general works on chemical and physical aspects of photoionization.
 - For works on the physics of ionization produced by photons of light, X-rays or gamma rays see QC702.7.P48
- 716.P5 Photopolymerization
 - Class here general works on photopolymerization
 - For works on inorganic polymerization see QD196
 - For works on organic polymerization see QD281.P6
- 719 Handbooks, tables, formulas, etc.
- 730.A-Z Special groups of substances, A-Z
- 730.C65 Coordination compounds
- Polymers see QD381.9.P56
- 730.S35 Semiconductors
- 730.T73 Transition metal compounds
- 731.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
- 801 Sonochemistry
 - Cf. TP156.A33 Industrial use of sounds and ultrasonics
- 850 Mechanical chemistry
- Supramolecular chemistry
 - Cf. QD380+ Macromolecules
- 875 Periodicals, societies, congresses, serial publications
- 876 Dictionaries and encyclopedias
- 878 General works, treatises, and textbooks
- 880 Electrochemistry of supramolecular compounds

- Physical and theoretical chemistry
 - Supramolecular chemistry -- Continued
 - 882 Supramolecular organometallic chemistry
- Crystallography
 - Cf. QE372+ Descriptive mineralogy
 - 901 Periodicals, societies, congresses, serial publications
 - 901.2 Collected works (nonserial)
 - 902 Dictionaries and encyclopedias
 - 902.5 Nomenclature, terminology, notation, abbreviations
 - History
 - 903 General works
 - 903.3.A-Z By region or country, A-Z
 - Biography of crystallographers
 - 903.5 Collective
 - 903.6.A-Z Individual, A-Z
 - 903.8 Directories
 - 904 Early works through 1800
 - General works, treatises, and textbooks
 - 905 1801-1969
 - 905.2 1970-
 - 906 Pictorial works and atlases
 - 906.3 Juvenile works
 - 906.5 Addresses, essays, lectures
 - 906.6 Special aspects of the subject as a whole
 - 906.7.A-Z Special topics, A-Z
 - 906.7.E37 Electron microscopy
 - 906.7.E4 Electronic data processing
 - 906.7.N83 Nuclear magnetic resonance spectroscopy
 - Statistical methods see QD919
 - Study and teaching. Research
 - 907 General works
 - 907.3 Problems, exercises, examinations
 - 907.5 Laboratory manuals
 - 907.7 Instruments and apparatus
 - 908 Handbooks, tables, formulas, etc.
 - Geometrical and mathematical crystallography
 - 911 General works
 - 912 Fundamental systems
 - Including tetragonal, orthorhombic, monoclinic systems
 - 913 Diagrams
 - 915 Goniometric measurements
 - 919 Statistical methods
 - Crystal structure and growth
 - Including crystal lattices, defects, and dislocations
 - For lattice dynamics see QC176.8.L3
 - Cf. QD548 Crystallization in solutions
 - Cf. QD549.2.C64 Colloidal crystals

Crystallography

Crystal structure and growth -- Continued

921

General works

923

Liquid crystals

Including polymer liquid crystals

Cf. QC173.4.L55 Physics

Cf. TP1180.P666 Chemical technology

924

Photonic crystals

925

Polycrystals

926

Quasicrystals

Cf. QC173.4.Q36 Physics

Physical properties of crystals

Cf. QC176+ Solids, solid state physics

931

General works

933

Mechanical properties

Including cohesion, elasticity, plasticity, cleavage, hardness

937

Thermal properties

939

Electric properties

Cf. QC595 Pyroelectricity

Cf. QC595.5 Piezoelectricity

940

Magnetic properties

941

Optical properties

Including isotropy, anisotropy, refractivity, reflectivity, crystal rotation

Cf. QC440+ Polarization

945

X-ray crystallography

947

Other physical properties (not A-Z)

951

Chemical crystallography

Including relationships between structure and bonding,
isomorphism, polymorphism, pseudomorphism

999

Miscellany and curiosa

Geology

For economic geology and mineral resources see TN1+

Cf. QB603.G46 Planetary geology

Cf. QH343.4 Geobiology

Cf. TA703+ Engineering geology

Cf. UG465+ Military geology

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 4 Voyages and expeditions
- 5 Dictionaries and encyclopedias
- 6 Philosophy
- 7 Nomenclature, terminology, notation, abbreviations
- History
- 11 General works
- 13.A-Z By region or country, A-Z
- Biography
- 21 Collective
- 22.A-Z Individual, A-Z
- e.g.
- 22.D25 Dana, James Dwight
- 22.L8 Lyell, Charles
- 22.S77 Steno, Nicolaus
- 23 Directories
- 25 Early works through 1800
- General works, treatises, and advanced textbooks
- 26 1801-1969
- 26.2 1970-2000
- 26.3 2001-
- Elementary textbooks
- 28 General
- 28.2 Physical geology
- 28.3 Historical geology
- 29 Juvenile works
- 31 Popular works
- 33 Special aspects of the subject as a whole
- 33.2.A-Z Special topics, A-Z
- 33.2.A3 Aerial photography in geology
- 33.2.A7 Artificial satellites in geology
- 33.2.B6 Borings
- 33.2.C48 Chaotic behavior in systems
- 33.2.C5 Charts, diagrams, etc.
- Computer simulation see QE48.8
- Data processing see QE48.8
- 33.2.F73 Fractals
- 33.2.H54 High pressure geosciences
- 33.2.M3 Mathematical geology
- 33.2.P47 Periodicity

- Special topics, A-Z -- Continued
- 33.2.P7 Practical geology
- 33.2.R33 Radar in earth sciences
- 33.2.R4 Remote sensing
- 33.2.S6 Spectrum analysis in geology
- 33.2.S82 Statistical methods
- 33.2.S9 Subsurface geology
- 33.2.T45 Thermal analysis
- 33.2.T7 Translating services. Translating
- 33.2.W38 Wavelets
- 34 Geology as a profession. Vocational guidance
- 35 Addresses, essays, lectures
- 36 Geological maps
 Class here works on making, interpretation, and use of geological maps
 For the maps themselves see G3200+
- Special fields
- 37 Agricultural geology
- Engineering geology see TA703+
- 38 Environmental geology
- 38.5 Forensic geology
- Military geology see UG465+
- 39 Submarine geology
 For submarine geology of a particular body of water, see QE350.2+
 Cf. GC83+ Submarine topography
 Cf. QE511.7 Sea-floor spreading
- 39.5.A-Z Other, A-Z
- Paleobiology see QE719.8
- 39.5.P25 Paleoceanography
- Paleoclimatology see QC884+
- Paleoecology see QE720+
- Paleogeography see QE501.4.P3
- 39.5.P27 Paleohydrology
- 39.5.P3 Paleolimnology
- Paleomagnetism see QE501.4.P35
- Paleopedology see QE473
- Paleoseismology see QE539.2.P34
- 39.5.U7 Urban geology
 For urban geology of a particular place see QE65+
- Study and teaching. Research
- 40 General works
- 41 Outlines, syllabi
- 42 Problems, exercises, examinations
- 43 Models, diagrams, etc.
- 44 Laboratory manuals
- 45 Fieldwork

Study and teaching. Research -- Continued

By region or country

United States

47.A1

General works

47.A2-Z

By region or state, A-Z

Subarrange each state by Table Q7

48.A-Z

Other regions or countries, A-Z

Subarrange each country by Table Q7

48.6

Awards

48.8

Data processing

Including computer simulation

Communication in geology

48.85

General works

48.86

Information services

48.87

Computer network resources

Including the Internet

Laboratories

49.A1

General works

49.A3-Z

By region or country, A-Z

Subarrange each country by Table Q6

49.5

Instruments and apparatus

50

Collection and preservation

Museums. Exhibitions

51.A1

General works

51.A2-Z

By region or country, A-Z

Subarrange each country by Table Q5

52

Handbooks, tables, formulas, etc.

53

Miscellany and curiosa

55

Dealers' catalogs of specimens

61

Surveys (History, organization, etc.)

Geographical divisions

65

Miscellaneous regions

e.g. British empire

70

Arctic regions. Greenland

America

70.5

General works

North America

71

General works

United States

72

Surveys (General)

73

Surveys, before 1861

74

Surveys, 1865-1879

United States Geological Survey

75

General publications of the USGS

76

Works about the USGS

77

General works

Special regions

Geographical divisions

America

North America

United States

Special regions -- Continued

- 78 Lake region and Saint Lawrence
- 78.3 North. Northeast. East. Appalachian Mountains
- 78.5 South. Southeast
- 78.7 Central. Mississippi Valley
- 79 Western states. Rocky Mountains
- 79.5 Southwest

By state

Class counties, physiographic regions, etc. in the local number

Alabama

- 81 General works
- 82.A-Z Local, A-Z

Alaska

- 83 General works
- 84.A-Z Local, A-Z

Arizona

- 85 General works
- 86.A-Z Local, A-Z

Arkansas

- 87 General works
- 88.A-Z Local, A-Z

California

- 89 General works
- 90.A-Z Local, A-Z

Colorado

- 91 General works
- 92.A-Z Local, A-Z

Connecticut

- 93 General works
- 94.A-Z Local, A-Z

Delaware

- 95 General works
- 96.A-Z Local, A-Z

97 District of Columbia

Florida

- 99 General works
- 100.A-Z Local, A-Z

Georgia

- 101 General works
- 102.A-Z Local, A-Z

Hawaii see QE349.H3

Idaho

Geographical divisions

America

North America

United States

By state

Idaho -- Continued

103 General works

104.A-Z Local, A-Z

Illinois

105 General works

106.A-Z Local, A-Z

Indiana

109 General works

110.A-Z Local, A-Z

Iowa

111 General works

112.A-Z Local, A-Z

Kansas

113 General works

114.A-Z Local, A-Z

Kentucky

115 General works

116.A-Z Local, A-Z

Louisiana

117 General works

118.A-Z Local, A-Z

Maine

119 General works

120.A-Z Local, A-Z

Maryland

121 General works

122.A-Z Local, A-Z

Massachusetts

123 General works

124.A-Z Local, A-Z

Michigan

125 General works

126.A-Z Local, A-Z

Minnesota

127 General works

128.A-Z Local, A-Z

Mississippi

129 General works

130.A-Z Local, A-Z

Missouri

131 General works

132.A-Z Local, A-Z

Geographical divisions

America

North America

United States

By state -- Continued

Montana

133 General works
134.A-Z Local, A-Z

Nebraska

135 General works
136.A-Z Local, A-Z

Nevada

137 General works
138.A-Z Local, A-Z

New Hampshire

139 General works
140.A-Z Local, A-Z

New Jersey

141 General works
142.A-Z Local, A-Z

New Mexico

143 General works
144.A-Z Local, A-Z

New York

145 General works
146.A-Z Local, A-Z

North Carolina

147 General works
148.A-Z Local, A-Z

North Dakota

149 General works
150.A-Z Local, A-Z

Ohio

151 General works
152.A-Z Local, A-Z

Oklahoma

153 General works
154.A-Z Local, A-Z

Oregon

155 General works
156.A-Z Local, A-Z

Pennsylvania

157 General works
158.A-Z Local, A-Z

Rhode Island

159 General works
160.A-Z Local, A-Z

Geographical divisions

America

North America

United States

By state -- Continued

South Carolina

161 General works

162.A-Z Local, A-Z

South Dakota

163 General works

164.A-Z Local, A-Z

Tennessee

165 General works

166.A-Z Local, A-Z

Texas

167 General works

168.A-Z Local, A-Z

Utah

169 General works

170.A-Z Local, A-Z

Vermont

171 General works

172.A-Z Local, A-Z

Virginia

173 General works

174.A-Z Local, A-Z

Washington (State)

175 General works

176.A-Z Local, A-Z

West Virginia

177 General works

178.A-Z Local, A-Z

Wisconsin

179 General works

180.A-Z Local, A-Z

Wyoming

181 General works

182.A-Z Local, A-Z

Canada

185 General works

186 Alberta

187 British Columbia

188 Manitoba

189 New Brunswick

190 Nova Scotia

191 Ontario

192 Prince Edward Island

Geographical divisions

America

North America

Canada -- Continued

193

Québec (Province)

194

Saskatchewan

195

Yukon

196.A-Z

Other northern territories, A-Z

(196.B3)

Baffin Island

see QE196.N86

196.F7

Franklin

196.H8

Hudson Bay

(196.K4)

Keewatin

see QE196.N86

Labrador see QE199

196.N7

Northwest Territories

Including Mackenzie

196.N86

Nunavut

Including Baffin Island, Keewatin

Ungava see QE193

199

Newfoundland and Labrador

Latin America

200

General works

Mexico

201

General works

203.A-Z

Local, A-Z

Central America

210

General works

211

Belize

212

Costa Rica

213

Guatemala

214

Honduras

215

Nicaragua

216

Panama

217

El Salvador

West Indies. Caribbean Area

220

General works

221

Bahamas

222

Cuba

223

Haiti

224

Jamaica

225

Puerto Rico

226.A-Z

Other, A-Z

226.A5

Antigua and Barbuda

226.A53

Antilles, Lesser

226.B35

Barbados

British Virgin Islands see QE226.V53

Geographical divisions

America

Latin America

West Indies. Caribbean Area

Other, A-Z -- Continued

226.C39

Cayman Islands

226.D7

Dominican Republic

Lesser Antilles see QE226.A53

226.M4

Martinique

226.S13

Saba

226.S175

Saint Martin

226.S56

Sint Eustatius

226.T8

Trinidad and Tobago

United States Virgin Islands see QE226.V55

Virgin Islands

226.V5

General works

226.V53

British Virgin Islands

226.V55

United States Virgin Islands

229

Bermuda

South America

230

General works

231

Argentina

233

Bolivia

235

Brazil

237

Chile

239

Colombia

241

Ecuador

Guianas

243

General works

243.2

Guyana (British Guiana)

243.3

Suriname (Dutch Guiana)

243.4

French Guiana

245

Paraguay

247

Peru

249

Uruguay

251

Venezuela

South Atlantic islands

256

General works

257

Falkland Islands

258.A-Z

Other South Atlantic islands, A-Z

e.g.

258.S6

South Georgia Island

260

Europe

Great Britain

261

General works

England and Wales

262.A1

General works

Geographical divisions

Europe

Great Britain

England and Wales -- Continued

262.A3-Z

Local, A-Z

e.g.

262.A6

Anglesey

262.B75

Broads, The

262.D36

Dean, Forest of

262.E3

England

262.G5

Gloucestershire

262.L2

Lake District

262.M2

Man, Isle of

262.P8

Purbeck, Isle of

262.W2

Wales

262.W6

Wight, Isle of

264

Scotland

265

Ireland

266

Austria

266.2

Hungary

267

Czechoslovakia. Czech Republic

267.15

Slovakia

267.2

Liechtenstein

268

France

269

Germany

271

Greece

272

Italy

272.5

Malta

273

Netherlands

274

Belgium

275

Luxembourg

276

Soviet Union. Russia (Federation)

Cf. QE315 Central Asia

276.3

Finland

276.5

Poland

Baltic States

276.7

General works

276.72

Estonia

276.74

Latvia

276.76

Lithuania

277

Scandinavia

278

Denmark

278.5

Faroe Islands

279

Iceland

281

Norway

282

Sweden

283

Spain

Geographical divisions

Europe -- Continued

- 284 Portugal. Azores
- 285 Switzerland. Alps
- Balkan States
- 287 General works
- 287.2 Albania
- 287.4 Bulgaria
- 287.6 Romania
- 287.8 Yugoslavia
- 288.A-Z Other regions or countries of Europe, A-Z
- 288.A33 Aegean Islands (Greece and Turkey)
- 288.B35 Baltic Sea Region
- 288.B38 Belarus
- 288.C276 Carpathian Mountains
- 288.C46 Central Europe
- 288.D56 Dinaric Alps
- 288.K37 Karst (Slovenia and Italy : Region)
- 288.K75 Krkonoše (Czech Republic and Poland)
- 288.M629 Moldova
- 288.P36 Pannonia Region
- 288.P97 Pyrenees
- 288.S55 Silesia, Upper
- 288.U38 Ukraine

Asia

- 289 General works
- 290 Afghanistan
- Arabian Peninsula
- 291.A1 General works
- 291.A3-Z By region or country, A-Z
- 291.A3 Aden
- 291.K9 Kuwait
- 291.M9 Muscat and Oman. Oman
- Oman see QE291.M9
- 291.S28 Saudi Arabia
- 294 China
- 294.3 Taiwan
- 294.5 Mongolia
- 295 India
- 295.2 Burma. Myanmar
- 295.3 Sri Lanka
- 295.4 Pakistan
- 295.5 Bangladesh
- 296 Indochina
- 298 Thailand
- 299 Malay Peninsula. Straits Settlements
- 299.5 Malaysia

Geographical divisions

Asia -- Continued

Indonesia. Dutch East Indies

301.A1

General works

301.A3-Z

By region, island, etc., A-Z

e.g.

301.A5

Amboina

301.B7

Borneo

301.C4

Celebese

301.C45

Ceram

(301.D8)

Dutch East Indies

see QE301.A1

301.J4

Java

301.K3

Kabaena Island

301.M7

Moluccas

301.S9

Sumatra

301.S94

Sunda Islands

301.T5

Timor

302

Philippines

304

Japan

305

Korea

Including South Korea

305.2

North Korea

307

Iran

307.2

Iraq

315

Soviet Central Asia. Central Asia. Siberia

Cf. QE276 Russia (Federation)

316

Turkey

317

Armenia

318

Israel. Palestine

318.2

Jordan

318.3

Lebanon

318.4

Syria

319.A-Z

Other regions or countries, A-Z

319.B46

Bengal Basin

319.C9

Cyprus

319.G35

Gangetic Plain

319.H5

Himalaya Mountains

319.N4

Near East. Middle East

319.O54

Oman Mountains (Oman and United Arab Emirates)

319.S67

Southeast Asia

319.5

Arab countries (General)

Africa

320

General works

321

Ethiopia

Former British possessions

325

South Africa

Geographical divisions

Africa

Former British possessions -- Continued

- 325.5 Central Africa (General)
 326 East Africa (General)
 327.A-Z Other, A-Z
 327.B3 Basutoland. Lesotho.
 327.B4 Bechuanaland. Botswana
 Cameroon see QE339.C35
 327.G6 Ghana. Gold Coast
 327.K4 Kenya
 Lesotho see QE327.B3
 Malawi see QE327.N8
 327.N5 Nigeria
 327.N8 Nyasaland. Malawi
 327.R55 Northern Rhodesia. Zambia
 327.R6 Rhodesia, Southern. Zimbabwe
 327.S2 Saint Helena
 327.S5 Sierra Leone
 327.S6 Sokotra (Yemen)
 327.S77 Sudan
 327.S8 Swaziland
 327.T3 Tanzania. Tanganyika
 327.U4 Uganda
 West Cameroon see QE339.C35
 Zambia see QE327.R55
 327.Z3 Zanzibar
 Zimbabwe see QE327.R6
- 328 Egypt
- Former French possessions
- 329 Algeria
 329.2 Tunisia
 330 Madagascar
 331.A-Z Other, A-Z
 331.B45 Benin
 Burkina Faso see QE331.U64
 Cameroun see QE339.C35
 Central African Republic see QE331.U2
 331.C53 Chad
 Côte d'Ivoire see QE331.I9
 Dahomey see QE331.B45
 331.D5 Djibouti
 331.F65 French Equatorial Africa
 French Somaliland see QE331.D5
 331.F7 French West Africa
 331.G3 Gabon
 331.G8 Guinea

Geographical divisions

Africa

Former French possessions

Other, A-Z -- Continued

- 331.I9 Ivory Coast. Côte d'Ivoire
- 331.M27 Mali
- 331.M3 Mauritania
- Morocco see QE339.M8
- 331.N5 Niger
- 331.U2 Ubangi-Shari. Central African Republic
- 331.U64 Upper Volta. Burkina Faso
- 332 Former German possessions
 - Cf. QE339.C35 Kamerun
- 334 Former Italian possessions. Libya
- 335 Congo (Democratic Republic). Zaire
- 335.5 Congo (Brazzaville)
- Former Portuguese possessions
- 337 General works
- 337.3 Mozambique
- 337.5 Angola
- 337.6 Cabo Verde
- 337.7 Guinea-Bissau
- 338 Spanish possessions
- 339.A-Z Other regions or countries, A-Z
- 339.B85 Burundi
- 339.C35 Cameroon
- 339.L5 Liberia
- 339.M8 Morocco
- 339.N34 Namibia
- 339.N66 Northeast Africa
- 339.N67 Northwest Africa
- 339.R85 Rwanda
- 339.S2 Sahara
- 339.S6 Somalia
- 339.S68 Southern Africa
- 339.S8 Sub-Saharan Africa
- 339.W46 West Africa
- Indian Ocean islands
- 339.5 General works
- 339.6.A-Z By region, island, etc., A-Z
- 339.6.M35 Maldives
- 339.6.R48 Réunion
- 339.6.S48 Seychelles
- Australasia
- 339.8 General works
- Australia
- 340 General works

Geographical divisions

Australasia

Australia -- Continued

341
(342)

New South Wales

New Zealand

see QE348.2

343

North Australia. Northern Territory

344

Queensland

345

South Australia

346

Tasmania

347

Victoria

348

Western Australia

348.2

New Zealand

348.4

Papua New Guinea

349.A-Z

Pacific islands, A-Z

e.g.

349.F5

Fiji

349.H3

Hawaii

349.M35

Marshall Islands

349.N43

New Hebrides. Vanuatu

349.O4

Oceania

349.S64

Solomon Islands

349.T66

Tonga

350

Antarctica

Atlantic Ocean

General works

350.2

Local major divisions, A-Z

350.22.A-Z

Baltic Sea

350.22.B34

Barents Sea

350.22.B37

Black Sea

350.22.B55

Bothnian Sea

350.22.B65

Caribbean Sea

350.22.C37

English Channel

350.22.E52

Gibraltar, Straits of

350.22.G53

Greenland-Iceland Sea

350.22.G73

Labrador Sea

350.22.L33

Maine, Gulf of

350.22.M32

Mediterranean Sea

350.22.M42

Mexico, Gulf of

350.22.M48

Mid-Atlantic Bight

350.22.M5

Mid-Atlantic Ridge

350.22.M52

North Atlantic Ocean

350.22.N65

North Sea

350.22.N67

Norwegian Sea

350.22.N68

Reykjanes Ridge

350.22.R48

South Atlantic Ocean

350.22.S68

Straits of Gibraltar see QE350.22.G53

Geographical divisions -- Continued

Pacific Ocean

- 350.4 General works
- 350.42.A-Z Local major divisions, A-Z
- 350.42.A43 Alaska, Gulf of
- 350.42.B45 Bering Sea Region
- 350.42.C45 China Sea
- 350.42.E27 East China Sea
- 350.42.J34 Japan Sea
- 350.42.N65 North Pacific
- 350.42.O44 Okhotsk Sea
- 350.42.P45 Philippine Sea
- 350.42.S66 South China Sea
- 350.42.S68 South Pacific Ocean
- 350.42.T37 Tasman Sea

Indian Ocean

- 350.5 General works
- 350.52.A-Z Local major divisions, A-Z
- 350.52.A73 Arabian Sea
- 350.52.R43 Red Sea

Arctic Ocean

- 350.6 General works
- 350.62.A-Z Local major divisions, A-Z
- 350.62.C45 Chukchi Sea

Mineralogy

- For crystallography see QD901+
- Cf. QB455.2 Astromineralogy
- 351 Periodicals, societies, congresses, serial publications
- 353 Collected works (nonserial)
- 355 Dictionaries and encyclopedias
- 357 Nomenclature, terminology, notation, abbreviations
- History
- 359.A1 General works
- 359.A2-Z By region or country, A-Z
- Biography
- 361.A2 Collective
- 361.A3-Z Individual, A-Z
- e.g.
- 361.C5 Clarke
- Dana, James Dwight see QE22.D25
- 361.H2 Haidinger
- 361.2 Directories
- 362 Early works through 1800
- General works, treatises, and textbooks
- 363 1801-1969
- 363.2 1970-
- 363.8 Pictorial works and atlases

Mineralogy -- Continued

- 364 Special aspects of the subject as a whole
- 364.2.A-Z Special topics, A-Z
- 364.2.E4 Electronic data processing
- 364.2.F47 Fluid inclusions
- 364.2.F5 Fluorescent minerals
- 364.2.H4 Heavy minerals
- 364.2.H54 High pressure
- 364.2.M37 Metallogeny
- 364.2.M4 Metasomatism
- 364.2.P3 Paragenesis
- 364.2.R3 Radioactive minerals
- Rock-forming minerals see QE397
- 364.2.S7 Statistical methods
- 364.2.S87 Surfaces
- 364.2.T45 Thermodynamics
- 365 Popular works
- 365.2 Juvenile works
- 366 Study and teaching. Research
- Mineralogical laboratories
- 366.15 General works
- 366.16.A-Z By region or country, A-Z
 - Subarrange each country by Table Q6
- 366.2 Collection and preservation
 - For mineral collecting in specific geographic regions see QE373+
- 366.8 Handbooks, tables, formulas, etc.
- Determinative mineralogy
 - For assaying see TN550+
 - Cf. QD87 Blowpipe analysis
- General works, treatises, and textbooks
 - 1801-1969
 - 1970-
- 367 Special aspects of the subject as a whole
- 367.2 Special topics, A-Z
- 368.9 Colloidal determinations
- 369.A-Z Differential thermal analysis
- 369.C6 Fedorovskii method
- 369.D5 Immersion method
- 369.F4 Microscopic determinations
- 369.I55 Optical determinations
- 369.M5 Physical properties
- 369.O6 Specific gravity determinations
- 369.P49 Spectrum analysis
- 369.S6 Ultraviolet
- 369.S65 X-ray powder
- 369.U4
- 369.X2
- 371 Mineralogical chemistry

Mineralogy -- Continued

Descriptive mineralogy

General works, treatises, and textbooks

372

1801-1969

372.2

1970-

Geographical divisions

North America

373

General works

United States

375

General works

375.5.A-Z

By region or state, A-Z

Canada

376

General works

376.5.A-Z

By region, province, or territory, A-Z

Mexico

377

General works

377.5.A-Z

By region or state, A-Z

Central America

377.7.A1

General works

377.7.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

West Indies. Caribbean Area

378.A1

General works

378.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

South America

379.A1

General works

379.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Europe

381.A1

General works

381.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Asia

382.A1

General works

382.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Africa

383.A1

General works

383.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Australia

384

General works

384.2.A-Z

By region, state, or territory, A-Z

New Zealand

384.5

General works

384.7.A-Z

By region or statistical area, A-Z

Mineralogy

Descriptive mineralogy

Geographical divisions -- Continued

Pacific islands

385.A1

General works

385.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Arctic regions

385.5.A1

General works

385.5.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Antarctica

385.6.A1

General works

385.6.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Museums. Exhibitions

386.A1

General works

386.A2-Z

By region or country, A-Z

Subarrange each country by Table Q5

387

Dealers' catalogs of specimens

388

Classification

Special groups of minerals

Descriptive and determinative

389

General works

389.1

Native elements

389.2

Sulfides, selenides, tellurides, arsenides, antimonides

389.3

Sulfo salts (Sulfarsenites, sulfantimonites, sulfobismuthites)

389.4

Halides (Chlorides, bromides, iodides, fluorides)

389.5

Oxides

Oxygen salts

389.6

General works

389.61

Carbonates

Including aragonite

Silicates, titanates

389.62

General works

389.625

Clay minerals

389.63

Niobates, tantalates

389.64

Phosphates, arsenates, vanadates, antimonates, nitrates

389.65

Borates, uranates

389.66

Sulfates, chromates, tellurates

389.67

Tungstates, molybdates

389.7

Salts of organic acids: oxalates, mellates, etc.

Hydrocarbon compounds

389.8

General works

Coal see TN805+

Petroleum see TN870.5+

Ore minerals (General)

Mineralogy

Special groups of minerals

Ore minerals (General) -- Continued

390	General works
390.2.A-Z	Special ore minerals, A-Z
390.2.A58	Antimony ores
390.2.B46	Beryllium ores
390.2.B67	Boron ores
390.2.C58	Cobalt ores
390.2.C6	Copper ores
390.2.G65	Gold ores
390.2.I76	Iron ores
390.2.L43	Lead ores
390.2.L57	Lithium ores
390.2.M35	Manganese ores
390.2.M47	Mercury ores
390.2.N53	Nickel ores
390.2.P56	Platinum ores
390.2.R37	Rare earth ores
390.2.S55	Silver ores
390.2.T42	Tellurium ores
390.2.T45	Thorium ores
390.2.T48	Tin ores
390.2.T5	Titanium ores
390.2.T85	Tungsten ores
390.2.U7	Uranium ores
390.2.V36	Vanadium ores
390.2.Z54	Zinc ores
390.5	Hydrothermal deposits. Hydrothermal alteration
391.A-Z	Description of special minerals, A-Z
391.A18	Acmite
391.A2	Actinolite
	Agate see QE391.Q2
391.A4	Allanite
391.A45	Alunite
391.A48	Amazonite
391.A5	Amber
391.A53	Amphiboles
391.A55	Analcime
391.A57	Andesine
391.A572	Andorite
391.A573	Anhydrite
391.A6	Apatite
391.A8	Augite
391.B2	Babingtonite
391.B35	Barite
391.B5	Benitoite

Mineralogy

Description of special minerals, A-Z -- Continued

391.B55	Bentonite
391.B6	Beryl
391.B64	Biotite
391.B7	Bøggildite
391.B73	Boehmite
391.B75	Botryogen
391.B78	Brannerite
391.B82	Brucite
391.C2	Calcite
391.C25	Cassiterite
391.C3	Celadonite
391.C32	Celestite
391.C35	Chalcocite
391.C38	Chalybite
391.C392	Chamosite
391.C396	Charoite
391.C4	Chert
391.C5	Chlorite
391.C6	Chondrodite
391.C65	Chromite
391.C657	Chrysoberyl
391.C67	Chrysotile
391.C8	Colemanite
391.C84	Cookeite
391.C9	Corundum
391.C94	Cuprodescloizite
391.D3	Datolite
391.D6	Dolomite
391.D8	Durangite
391.E43	Electrum
391.E5	Endlichite
391.E6	Enstatite
391.E8	Epidote
391.E9	Evansite
391.F3	Feldspar
391.F4	Ferberite
391.F45	Ferrierite
	Flint see QE471.15.F47
391.F6	Fluorspar
391.G3	Galena
391.G37	Garnet
391.G5	Glauconite
391.G55	Gmelinite
391.G6	Gold
391.G8	Gunnbjarnite

Mineralogy

Description of special minerals, A-Z -- Continued

391.G93	Gypsum
391.H34	Hedenbergite
391.H38	Helvite
391.H4	Hematite
391.H5	Hercynite
391.H55	Heulandite
391.H8	Hortonolite
391.H84	Huebnerite
	Iceland spar see QE391.C2
	Idocrase see QE391.V55
391.I4	Ilimaussite
391.I44	Ilmenite
391.I53	Indianite
391.I7	Iron
	Jade see QE394.J3
391.J25	Jarosite
	Jasper see QE391.Q2
391.K2	Kaolinite
391.L28	Lawsonite
391.L3	Lazurite
391.L4	Leucite
	Leucoxene see QE396
391.L5	Liebigite
391.L8	Ludwigite
391.M2	Magnesite
391.M22	Magnetite
391.M25	Malachite
391.M3	Marcasite
391.M34	Meerschaum
391.M4	Melanosiderite
391.M45	Merumite
391.M6	Mica
391.M67	Moissanite
391.M7	Molybdenite
391.M75	Monazite
391.M8	Mordenite
391.M85	Muscovite
391.N27	Natrolite
391.N3	Naujakasite
	Nephrite see QE391.A2
391.O45	Olvine
	Opal see QE394.O7
	Palacheite see QE391.B75
391.P34	Palygorskite
391.P44	Pecoraite

Mineralogy

Description of special minerals, A-Z -- Continued

391.P47	Perovskite
391.P48	Petalite
391.P5	Pickeringite
391.P55	Plagioclase
391.P56	Pollucite
391.P8	Pyrophyllite
391.P84	Pyroxene
391.P86	Pyroxmangite
391.P9	Pyrrhotite
391.Q2	Quartz
	Ramirite see QE391.C94
391.R5	Riebeckite
391.R7	Roscoelite
391.R88	Rutile
391.S25	Sapphirine
391.S28	Scapolite
391.S3	Scheelite
	Schungite see QE475.S39
	Sepiolite see QE391.M34
391.S47	Serpentine
391.S49	Siderite
391.S5	Sillimanite
391.S6	Smectite
391.S65	Sphalerite
391.S67	Sphene
391.S68	Spinel
391.S7	Spodumene
391.S73	Stannite
391.S75	Staurolite
391.S77	Stenonite
391.S8	Stichtite
391.T2	Talc
391.T3	Tephroite
391.T4	Tetradymite
391.T6	Topaz
391.T7	Tourmaline
391.T8	Trona
391.T85	Tugtupite
391.U65	Uraninite
	Uranothallite see QE391.L5
391.V35	Vanadinite
391.V5	Vermiculite
391.V55	Vesuvianite
391.V6	Villiaumite
391.V64	Vivianite

Mineralogy

Description of special minerals, A-Z -- Continued

- 391.V68 Volkonskoite
- 391.W3 Wagnerite
- 391.W6 Wolframite
- 391.W66 Wollastonite
- 391.Z5 Zeolites
- 391.Z7 Zircon
- 391.Z8 Zoisite

Precious stones

- Cf. NK7650+ Art industries
- Cf. TN980+ Mining
- Cf. TS747+ Jewelry manufacture

- 392 General works, treatises, and textbooks
- 392.2 Juvenile works
- 392.5.A-Z By region or country, A-Z
- 393 Diamonds
- 394.A-Z Other precious stones, A-Z
- 394.A4 Amethysts
- 394.E5 Emeralds
- 394.J3 Jade
- 394.J46 Jet
- 394.O7 Opals
- 394.R8 Rubies
- 394.S3 Sapphires
- 394.T8 Turquoise

396 Leucosene

397 Rock-forming minerals

Meteorites see QB754.8+

399 Tektites

For fluorescent minerals see QE364.2.F5

399.2 Miscellany and curiosa

Petrology

Cf. TN950+ Building stones

- 420 Periodicals, societies, congresses, serial publications
- 421 Collected works (nonserial)
- 423 Dictionaries and encyclopedias
- 425 Nomenclature, terminology, notation, abbreviations
- 425.4 Classification
- History
- 427.A1 General works
- 427.A2-Z By region or country, A-Z
- 430 Early works through 1800
- General works, treatises, and textbooks
- 431 1801-1969
- 431.2 1970-
- 431.5 Special aspects of the subject as a whole

- Petrology -- Continued
- 431.6.A-Z Special topics, A-Z
 - 431.6.A25 Acoustic properties
 - 431.6.E4 Electric properties
 - 431.6.M3 Magnetic properties
 - 431.6.M4 Mechanical properties
 - 431.6.O7 Ores
 - 431.6.P4 Petrogenesis
 - 431.6.P5 Physical properties
 - 431.6.P6 Porosity
 - 431.6.T45 Thermal properties
 - 431.6.W38 Water-rock interaction
 - 432 Popular works
 - 432.2 Juvenile works
 - 432.5 Addresses, essays, lectures
 - Study and teaching. Research
 - 432.7 General works
 - 433 Laboratory manuals
 - 433.5 Instruments and apparatus
 - 433.6 Collection and preservation
 - For rock collecting in specific geographic regions see QE443+
 - 433.7 Data processing
 - 433.8 Handbooks, tables, formulas, etc.
 - 434 Microscopic analysis of rocks. Thin sections
 - 435 X-ray petrology
 - 438 Chemical analysis of rocks
 - 440 Petrofabric analysis
 - Including petrofabric diagrams
 - Museums. Exhibitions
 - 442.A1 General works
 - 442.A2-Z By region or country, A-Z
 - Subarrange each country by Table Q5
 - Geographical divisions
 - North America
 - 443 General works
 - United States
 - 444 General works
 - 445.A-Z By region or state, A-Z
 - Canada
 - 445.5 General works
 - 446.A-Z By region or province, A-Z
 - Greenland see QE456.G73
 - Mexico
 - 446.5 General works
 - 446.6.A-Z By region or state, A-Z
 - 447 Central America (Table Q3)

Petrology

Geographical divisions

North America -- Continued

448 West Indies. Caribbean Area (Table Q3)

448.5 Atlantic Ocean islands (Table Q3)

Greenland see QE456.G73

449 South America (Table Q3)

451 Europe (Table Q3)

Greenland see QE456.G73

452 Asia (Table Q3)

453 Africa (Table Q3)

Indian Ocean islands

453.2 General works

453.3.A-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Australasia

453.45 General works

Australia

453.5 General works

454.A-Z By region, state, or territory, A-Z

New Zealand

454.5 General works

454.6.A-Z By region, territory, or island, A-Z

Pacific islands

455.A1 General works

455.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Polar regions

455.8 General works

456 Arctic regions (Table Q3)

456.A1 General works

456.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

456.G73 Greenland

456.5 Antarctica (Table Q3)

456.5.A1 General works

456.5.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

456.8 Tropics

Igneous rocks, volcanic ash, tuff, etc.

461 General works

462.A-Z Special, A-Z

462.A34 Adakite

462.A35 Alaskite

462.A37 Albitite

462.A4 Alkalic igneous rocks

462.A5 Andesite

Petrology

Igneous rocks, volcanic ash, tuff, etc.

Special, A-Z -- Continued

462.A55	Anorthosite
462.A63	Aplite
462.B3	Basalt
462.B65	Boninite
462.C36	Carbonatites
462.C5	Charnockite
462.D5	Diabase
462.D56	Diorite
462.F4	Fenite
462.G3	Gabbro
462.G7	Granite
462.G75	Granodiorite
462.G77	Greenstone
462.H67	Hornblendite
462.I35	Igimbrite
462.K44	Keratophyre
462.K5	Kimberlite
462.K66	Komatiite
462.L35	Lamproite
462.L37	Latite
462.L48	Leucitite
462.M6	Monzonite
462.N4	Nepheline syenite
462.O28	Obsidian
462.O43	Olivinite
462.O6	Ophiolites
462.O73	Orangeite
462.P4	Pegmatites
462.P43	Pegmatoids
462.P45	Peridotite
462.P6	Porphyry
462.P7	Propylite
462.R4	Rhyolite
	Serpentinite see QE475.S47
462.S65	Spilites
462.S95	Syenite
462.T74	Trondhjemite
462.U4	Ultrabasic rocks
462.V64	Volcanite

Sedimentary rocks. Sedimentology

For sedimentation see QE571+

471	General works
471.15.A-Z	Special, A-Z
471.15.A68	Arenites

Petrology

Sedimentary rocks. Sedimentology

Special, A-Z -- Continued

- | | |
|------------|---|
| 471.15.A7 | Arkose |
| 471.15.B32 | Bauxite |
| 471.15.B34 | Beachrock |
| 471.15.B4 | Bentonite |
| 471.15.B7 | Breccia |
| 471.15.C27 | Calcretes |
| 471.15.C3 | Carbonate rocks |
| 471.15.C4 | Chert |
| 471.15.C58 | Concretions |
| 471.15.C6 | Conglomerate |
| 471.15.D6 | Dolomite |
| 471.15.E8 | Evaporites |
| 471.15.F47 | Flint |
| 471.15.F5 | Flysch |
| 471.15.G4 | Geodes |
| 471.15.L5 | Limestone |
| 471.15.M44 | Melanges |
| 471.15.M83 | Mudstone |
| 471.15.O5 | Oolite |
| | Phosphate rock see QE471.15.P48 |
| 471.15.P48 | Phosphorite. Phosphate rock |
| 471.15.S2 | Salt |
| 471.15.S25 | Sandstone |
| 471.15.S5 | Shale |
| 471.15.S54 | Siltstone |
| 471.15.T5 | Tillite |
| 471.15.T64 | Tonsteins |
| 471.15.T73 | Travertine |
| 471.15.T8 | Turbidites |
| 471.2 | Sediments (Unconsolidated) |
| 471.3 | Clay |
| 472 | Sedimentary structures |
| 473 | Paleopedology |
| | Metamorphic rocks. Metamorphism |
| 475.A2 | General works, treatises, and textbooks |
| 475.A3-Z | Special, A-Z |
| 475.A4 | Amphibolite |
| 475.E25 | Eclogite |
| 475.G55 | Gneiss |
| 475.G7 | Granulite |
| 475.J27 | Jadeite |
| 475.J3 | Jasperoid |
| 475.L57 | Listwanite |
| 475.M3 | Marble |

Petrology

Metamorphic rocks. Metamorphism

Special, A-Z -- Continued

475.M45	Metabasite
475.M5	Migmatite
475.M95	Mylonite
475.P47	Phyllite
475.Q3	Quartzite
475.S3	Schist
475.S39	Schungite
475.S47	Serpentine
475.S6	Soapstone
475.T33	Tactite
475.T43	Tectonite
495	Laterite
496	Saprolites
499	Miscellany and curiosa

Dynamic and structural geology

Physical and tectonic

500	Periodicals, societies, congresses, serial publications
500.5	History
501	General works, treatises, and textbooks Including physical history of the earth
501.2	Popular works
501.25	Juvenile works
501.3	Special aspects of the subject as a whole
501.4.A-Z	Special topics, A-Z
	Isotope geology see QE501.4.N9
501.4.M38	Mathematics
501.4.M6	Mohole project
501.4.N9	Nuclear geology. Isotope geology
501.4.P3	Paleogeography
501.4.P35	Paleomagnetism
	Paleoweathering see QE570
501.4.P6	Polar wandering
501.4.R45	Remote sensing
501.4.U6	Upper mantle project
505	Addresses, essays, lectures
505.5	Study and teaching. Research
506	Geological cosmogony
507	Deluge, etc.
508	Geological time. Age of the earth Including age determination, radioactive dating
	Interior of the earth. Internal structure of the earth
509	General works
509.2	Core
509.3	Core-mantle boundary

- Dynamic and structural geology
 - Interior of the earth. Internal structure of the earth --
 - Continued
 - 509.4 Mantle
 - 509.5 Temperature
 - 511 Earth's crust. Isostasy
 - Including continental crust, cratons, and glacial isostasy
 - Cf. QB331 Gravity determinations
 - 511.2 Island arcs
 - Plate tectonics
 - 511.4 General works
 - 511.42 Neotectonics
 - 511.44 Morphotectonics
 - 511.46 Subduction zones
 - 511.48 Suture zones
 - 511.5 Continental drift
 - Including Gondwana, Pangaea
 - 511.7 Sea-floor spreading
 - 512 Epeirogeny
 - 513 Salt tectonics
 - Geochemistry
 - Cf. QH343.7+ Biogeochemistry
 - 514 Periodicals, societies, congresses, serial publications
 - Biography
 - 514.6 Collective
 - 514.62.A-Z Individual, A-Z
 - 515 General works, treatises, and textbooks
 - Geographical divisions
 - North America
 - 515.15 General works
 - United States
 - 515.16 General works
 - 515.17.A-Z By region or state, A-Z
 - 515.18-.185 Canada
 - 515.18 General works
 - 515.185.A-Z By region or province, A-Z
 - Greenland see QE515.46.G73
 - Mexico
 - 515.19 General works
 - 515.195.A-Z By region or state, A-Z
 - 515.2 Central America (Table Q3)
 - 515.23 West Indies. Caribbean Area (Table Q3)
 - 515.25 South America (Table Q3)
 - 515.27 Atlantic Ocean islands (Table Q3)
 - Greenland see QE515.46.G73
 - 515.28 Europe (Table Q3)
 - Greenland see QE515.46.G73

- Dynamic and structural geology
- Geochemistry
 - Geographical divisions -- Continued
 - 515.3 Asia (Table Q3)
 - 515.33 Africa (Table Q3)
 - 515.35 Indian Ocean islands (Table Q3)
 - Australasia
 - 515.37 General works
 - Australia
 - 515.38 General works
 - 515.39.A-Z By state, territory, or region, A-Z
 - New Zealand
 - 515.4 General works
 - 515.42.A-Z By region, territory, or island, A-Z
 - 515.43 Pacific islands (Table Q3)
 - Polar regions
 - 515.45 General works
 - 515.46 Arctic regions (Table Q3)
 - 515.46.G73 Greenland
 - 515.47 Antarctica (Table Q3)
 - 515.49 Tropics
 - 515.5.A-Z Special topics, A-Z
 - 515.5.D37 Data processing
 - 515.5.G43 Geochemical modeling
 - 515.5.G45 Geochemical self-organization
 - 515.5.K55 Kinetics
 - 515.5.R45 Remote sensing
 - 515.5.T46 Thermodynamics
 - 516.A-Z Special elements and groups of elements, A-Z (Table Q1 modified)
 - 516.A35 Alkali metals
 - 516.C37 Carbon
 - Including geological carbon sequestration
 - 516.H3 Halogens
 - 516.M65 Metals
 - 516.R15 Radioactive substances
 - 516.R2 Rare earth metals
 - 516.R23 Rare gases
 - 516.T85 Trace elements
 - 516.3 Analytical geochemistry
 - 516.4 Environmental geochemistry
 - Nuclear geochemistry see QE501.4.N9
 - 516.5 Organic geochemistry
- Dynamic geology
 - 517 Periodicals, societies, congresses, serial publications
 - 517.5 General works, treatises, and textbooks
- Volcanoes and earthquakes

- Dynamic and structural geology
 Volcanoes and earthquakes -- Continued
- 521 General works, treatises, and textbooks
 521.2 Popular works
 521.3 Juvenile works
 Volcanoes. Volcanism
 Including supervolcanoes
- 521.5 Periodicals, societies, congresses, serial publications
 522 General works, treatises, and textbooks
 523.A-Z Individual volcanoes, A-Z
 Including individually named groups
 e.g.
- 523.C47 Chichon (Mexico)
 523.C7 Colima (Mexico : Volcano)
 523.E8 Etna, Mount (Italy)
 523.E95 Eyjafjallajökull Volcano (Iceland)
 523.F68 Fournaise, Piton de la (Réunion)
 523.F8 Fuji, Mount (Japan)
 523.K3 Katmai, Mount (Alaska)
 523.K5 Kilauea Volcano (Hawaii)
 523.K73 Krakatoa (Indonesia)
 523.M47 Merapi Volcano (Java, Indonesia)
 523.O57 Ontake Mountain (Japan)
 523.P3 Pelée, Mount (Martinique)
 523.P56 Pinatubo, Mount (Philippines)
 Piton de la Fournaise (Réunion) see QE523.F68
- 523.P8 Popocatepetl (Mexico)
 523.S23 Saint Helens, Mount (Wash.)
 523.S27 Santorini Volcano (Greece)
 523.S68 Soufrière (Guadeloupe)
 523.V5 Vesuvius, Mount (Italy)
- Western Hemisphere. America
 Including Hawaii
- 524 General works
 524.2.A-Z By region or country, A-Z
 For individual volcanoes see QE523.A+
- Eastern Hemisphere. Europe, Africa
- 526 General works
 526.2.A-Z By region or country, A-Z
 For individual volcanoes see QE523.A+
- Eastern Hemisphere. Asia, Australasia
- 527 General works
 527.2.A-Z By region or country, A-Z
 For individual volcanoes see QE523.A+
- 527.3 Pacific Area (General)
 527.4 Antarctica
 527.5 Prediction of volcanic activity

- Dynamic and structural geology
- Volcanoes and earthquakes
 - Volcanoes. Volcanism -- Continued
 - 527.55 Remote sensing
 - 527.56 Tephrochronology
 - 527.6 Volcanic hazard analysis. Safety measures
 - For hazard analysis or safety measures in specific geographic regions see QE523+
 - 527.7 Volcanic plumes
 - 527.73 Lava flows
 - 527.75 Volcanic gases and vapors
 - Including volcanic gas reservoirs
 - 528 Geysers, hot springs, etc.
 - 529 Miscellany and curiosa
 - Earthquakes. Seismology
 - Cf. TC181 Earthquakes and hydraulic structures
 - Cf. TC542.5 Earthquakes and dams
 - Cf. TF539 Damage to railroads
 - Cf. TH1095 Earthquakes and building
 - 531 Periodicals, societies, congresses, serial publications
 - 532.A-Z Observations. By name of issuing observatory, A-Z
 - Including serial collections issued by individual observatories
 - 533 Early works through 1800
 - General works, treatises, and textbooks
 - 534 1801-1969
 - 534.2 1970-2000
 - 534.3 2001-
 - Special
 - Western Hemisphere. America
 - 535 General works
 - 535.2.A-Z By region or country, A-Z
 - Eastern Hemisphere. Europe, Africa
 - 536 General works
 - 536.2.A-Z By region or country, A-Z
 - Eastern Hemisphere. Asia, Australasia
 - 537 General works
 - 537.2.A-Z By region or country, A-Z
 - 537.5 Pacific Area (General)
 - 538 Antarctica
 - 538.5 Seismic waves. Elastic waves
 - 538.8 Earthquake prediction
 - 539 Special aspects of the subject as a whole
 - 539.2.A-Z Special topics, A-Z
 - 539.2.A4 Aftershocks
 - 539.2.D36 Data processing
 - 539.2.E42 Elastic rebound theory

- Dynamic and structural geology
 Volcanoes and earthquakes
 Earthquakes. Seismology
 Special topics, A-Z -- Continued
 Hazard analysis see QE539.2.S34
 539.2.I46 Induced seismicity
 539.2.I5 Intensity
 539.2.M37 Mathematics
 539.2.M5 Microseisms
 539.2.P34 Paleoseismology
 539.2.P4 Periodicity
 539.2.R45 Remote sensing
 539.2.S34 Safety measures. Hazard analysis
 For safety measures or hazard analysis in specific
 geographic regions, see QE535+
 539.2.S37 Seismic event location
 539.2.S4 Seismic models
 539.2.S43 Seismic travelttime inversion
 539.2.S73 Statistical methods
 Observatories. Seismic networks
 General works
 540.A2 By region or country, A-Z
 540.A5-Z
 Under each country:
 .x *General works*
 .x2A-.x2Z *Individual observatories. By name,*
 A-Z
 541 Instruments. Seismometry
 Including tables, calculations, seismograms, etc.
 (545) Volcanic gases and vapors
 see QE527.75
 Coral islands and reefs. Atolls
 Cf. GB461+ Geomorphology
 565 General works
 565.5.A-Z By region or country, A-Z
 For individual coral reefs and islands see QE566.A+
 566.A-Z Individual, A-Z
 e.g.
 566.F35 Fangataufa Atoll
 566.G7 Great Barrier Reef (Qld.)
 566.M87 Mururoa Atoll
 570 Weathering
 Including paleoweathering
 Sedimentation
 Including erosion and deposition
 For sedimentary rocks and sedimentology see QE471+
 571 General works
 573 Cryopedology

- Dynamic and structural geology
- Sedimentation -- Continued
 - Glacial erosion
 - Cf. GB581+ Glacial landforms
 - Cf. QE697+ Pleistocene
 - 575 Periodicals, societies, congresses, serial publications
 - 576 General works, treatises, and textbooks
 - 578 Moraines, eskers, kames
 - 579 Drift. Loess
 - 581 Aqueous erosion
 - Cf. S622+ Agriculture
 - 587 Evorsion
 - 597 Aerial erosion
- Earth movements. Mass movements
 - For descriptive works, disasters, etc., see DA+
 - 598 Periodicals, societies, congresses, serial publications
 - 598.2 General works, treatises, and textbooks
 - 598.3 Juvenile works
 - 598.5.A-Z By region or country, A-Z
 - Landslides. Rockslides
 - Including mudflows and mudslides
 - 599.A1 Periodicals, societies, congresses, serial publications
 - 599.A2 General works, treatises, and textbooks
 - 599.A5-Z By region or country, A-Z
 - 599.2 Landslide hazard analysis
 - For hazard analysis in specific geographic regions
 - see QE599.A5+
 - Subsidences
 - 600 Periodicals, societies, congresses, serial publications
 - 600.2 General works, treatises, and textbooks
 - 600.3.A-Z By region or country, A-Z
- Structural geology
 - 601 General works, treatises, and textbooks
 - 601.2 Special aspects of the subject as a whole
 - 601.3.A-Z Special topics, A-Z
 - 601.3.D37 Data processing
 - 601.3.M38 Mathematics
 - 601.3.S83 Stereographic projection
 - 601.8 Problems, exercises, examinations
 - 602 Stratification
 - 604 Deformation
 - 605 Joints and cleavages
 - Faults and folds
 - 606 General works, treatises, and textbooks
 - 606.3.A-Z Special topics, A-Z
 - 606.3.A58 Anticlines
 - 606.3.S96 Synclines

- Dynamic and structural geology
 - Structural geology
 - Faults and folds -- Continued
 - 606.5.A-Z By region or country, A-Z
 - Geosynclines
 - 607 General works, treatises, and textbooks
 - 607.5.A-Z By region or country, A-Z
 - Metamorphism
 - (608) see QE475
 - Veins, dikes, necks, bosses, laccoliths, and other intrusive bodies
 - Cf. TN263 Ore deposits
 - 611 General works, treatises, and textbooks
 - 611.5.A-Z By region or country, A-Z
 - Impact craters
 - 612 General works, treatises, and textbooks
 - 612.5.A-Z By region or country, A-Z
 - Cryptoexplosion structures
 - 613 General works, treatises, and textbooks
 - 613.5.A-Z By region or country, A-Z
 - Basins. Sedimentary basins
 - 615 General works, treatises, and textbooks
 - 615.5.A-Z By region or country, A-Z
 - Mountain building. Orogeny
 - 621 General works
 - 621.5.A-Z By region or country, A-Z
 - 625 Effects of plants, animals, and man in geology
 - Cf. QR103 Geomicrobiology
 - Geographical divisions
 - North America
 - 626 General works
 - United States
 - 627 General works
 - 627.5.A-Z By region or state, A-Z
 - Canada
 - 628 General works
 - 628.5.A-Z By region, province, or territory, A-Z
 - Mexico
 - 629 General works
 - 629.5.A-Z By region or state, A-Z
 - Central America
 - 630.A1 General works
 - 630.A3-Z By region, country, or island, A-Z
 - Offshore islands generally class with adjacent mainland
 - West Indies. Caribbean Area
 - 631.A1 General works

Dynamic and structural geology

Geographical divisions

North America

West Indies. Caribbean Area -- Continued

631.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

South America

632.A1

General works

632.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Europe

633.A1

General works

633.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Asia

634.A1

General works

634.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Africa

635.A1

General works

635.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Australia

636

General works

636.5.A-Z

By region, state, or territory, A-Z

New Zealand

637

General works

637.5.A-Z

By region or statistical area, A-Z

Pacific islands

638.A1

General works

638.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Arctic regions

639.A1

General works

639.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Antarctica

639.5.A1

General works

639.5.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Stratigraphy

Prefer stratigraphic to geographical classification

For historical geology see QE28.3

640

Periodicals, societies, congresses, serial publications

645

Nomenclature, terminology, notation, abbreviations

Class here general works as well as works on the nomenclature of particular regions, countries, etc.

Stratigraphy -- Continued

- 651 General works, treatises, and textbooks
- 651.5 Cyclostratigraphy
- 652 Data processing
- Stratigraphic correlation
- 652.5 General works
- 652.55.A-Z By region or country, A-Z
- Precambrian
- 653 General works
- 653.3 Archaean
- 653.5 Proterozoic
- Paleozoic
- 654 General works
- (655) Algonkian. Huronian. Precambrian in general
see QE653
- 656 Cambrian
- 660 Ordovician
- Silurian
- 661 General works
- (662) Lower (Ordovician)
see QE660
- (663) Upper (Silurian)
see QE661
- 665 Devonian
- Carboniferous
- 671 General works
- 672 Mississippian
- 673 Pennsylvanian
Cf. TN799.9+ Coal
- 673.5 Permo-Carboniferous
- 674 Permian
- Mesozoic
- 675 General works
- Triassic
- 676 General works
- 677 Lower
- 678 Middle
- 679 Upper
- Jurassic
- 681 General works
- 682 Lower
- 683 Middle
- 684 Upper
- Cretaceous
- 685 General works
- 686 Lower
- 687 Middle

- Stratigraphy
 - Mesozoic
 - Cretaceous -- Continued
 - Upper
 - 688
 - 689
 - Cretaceous-Tertiary boundary
 - Cenozoic
 - General works
 - 690
 - Tertiary
 - General works
 - 691
 - Paleogene
 - General works
 - 691.5
 - Paleocene
 - 692
 - Eocene
 - 692.2
 - Eocene-Oligocene boundary
 - 692.8
 - Oligocene
 - 693
 - Neogene
 - General works
 - 693.5
 - Miocene
 - 694
 - Pliocene
 - 695
 - Pliocene-Pleistocene boundary
 - 695.5
 - Quaternary
 - General works
 - 696
 - Pleistocene. Glacial epoch
 - General works
 - 697
 - Cause of the glacial epoch
 - 698
 - Holocene, Recent
 - 699
 - Geological climate see QE698
 - Paleoclimatology see QC884+
 - Paleontology
 - Periodicals, societies, congresses, serial publications
 - 701
 - Collected works (nonserial)
 - 702
 - Dictionaries and encyclopedias
 - 703
 - Communication of information
 - General works
 - 704
 - Information services
 - 704.2
 - Computer network resources
 - 704.3
 - Including the Internet
 - History
 - General works
 - 705.A1
 - By region or country, A-Z
 - 705.A2-Z
 - Biography
 - Collective
 - Including directories
 - 707.A2
 - Individual, A-Z
 - 707.A3-Z
 - e.g.
 - Teilhard de Chardin, Pierre
 - 707.T4
 - Zittel, K.A.
 - 707.Z8

Paleontology -- Continued

- Early works
- 709 Through 1790
- 710 1791-1830
- General works, treatises, and textbooks
 - Including stratigraphic paleontology
 - 711 1831-1969
 - 711.2 1970-2000
 - 711.3 2001-
 - 713 Comprehensive systematic works
 - Including both zoological and botanical works
 - 714 Pictorial works and atlases
 - 714.2 Paleoart
 - Including paleontological illustration
 - 714.3 Popular works
 - 714.5 Juvenile works
 - 714.7 Paleontology as a profession. Vocational guidance
 - 715 Study and teaching
 - Museums. Exhibitions
 - Class catalogs of special subjects with the subject, e.g. British Museum catalog of fossil fishes in QE851
 - 716.A1 General works
 - 716.A2-Z By region or country, A-Z
 - Subarrange each country by Table Q5
 - 718 Collection and preservation
 - Class here general works on collection and preservation of fossils
 - For works on collection by stratigraphic division see QE724+
 - For works on collection by geographic division see QE743+
 - For works on collection and preservation of individual fossils see QE767
 - Micropaleontology
 - For fossil biomolecules see QP517.F66
 - 719 General works
 - 719.5 Prokaryotes. Bacteria
 - 719.6 Protista
 - Cf. QE771+ Protozoa
 - Cf. QE955 Algae
 - 719.8 Paleobiology
 - Cf. QE721.2.E85 Evolutionary paleobiology
 - Paleoecology
 - 720 General works
 - 720.2.A-Z By region or country, A-Z
 - 720.5 Ichnology. Trace fossils
 - 721 Special aspects of the subject as a whole

Paleontology -- Continued

- 721.2.A-Z Special topics, A-Z
- 721.2.D37 Data processing
- 721.2.E85 Evolutionary paleobiology
- 721.2.E87 Evolutionary paleoecology
- 721.2.E97 Extinction
- 721.2.F6 Fossilization. Taphonomy
- 721.2.M63 Models and modelmaking
- 721.2.P24 Paleobiogeography
- 721.2.P26 Paleontological excavations
 - For geographical divisions see QE743+
- 721.2.P3 Paleotemperatures
- 721.2.S7 Statistical methods
- 721.2.V3 Taphonomy see QE721.2.F6
- 723 Variation
- Addresses, essays, lectures
- Stratigraphic divisions (General and zoological)
 - Corresponding classes for stratigraphic geology in QE653+
- Precambrian
 - 724 General works
 - 724.5 Proterozoic
- Paleozoic
 - 725 General works
 - 726 Cambrian
 - 726.2 Ordovician
 - 727 Silurian
 - 728 Devonian
 - Carboniferous
 - 729 General works
 - 729.2 Mississippian
 - 729.3 Pennsylvanian
 - 730 Permian
- Mesozoic
 - 731 General works
 - 732 Triassic
 - 733 Jurassic
 - 734 Cretaceous
 - 734.5 Cretaceous-Tertiary boundary
- Cenozoic
 - 735 General works
 - Tertiary
 - 736 General works
 - Paleogene
 - 736.5 General works
 - 736.8 Paleocene
 - 737 Eocene
 - 738 Oligocene

Paleontology

Stratigraphic divisions (General and zoological)

Cenozoic

Tertiary -- Continued

Neogene

738.5 General works

739 Miocene

740 Pliocene

Quaternary

741 General works

741.2 Pleistocene

741.3 Holocene, Recent

742 Amber fauna and flora

Geographical divisions (General and zoological)

Prefer the stratigraphic divisions above to geographical divisions

743 General works

743.5 Ocean bottom

744 Arctic regions

North America

745 General works

United States

746 General works

747.A-Z By region or state, A-Z

Canada

748.A1 General works

748.A3-Z By region or province, A-Z

Offshore islands generally class with adjacent mainland

Mexico

749.A1 General works

749.A3-Z By region or state, A-Z

Offshore islands generally class with adjacent mainland

West Indies and Bermuda

750.A1 General works

750.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Central America

751.A1 General works

751.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

South America

752.A1 General works

752.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Europe

753 General works

754 Great Britain

- Paleontology
- Geographical divisions (General and zoological)
- Europe -- Continued
- 755.A-Z Other regions or countries, A-Z
- Asia
- 756.A1 General works
- 756.A3-Z By region, country, or island, A-Z
Offshore islands generally class with adjacent mainland
- Africa
- 757.A1 General works
- 757.A3-Z By region, country, or island, A-Z
Offshore islands generally class with adjacent mainland
- Australia
- 758.A1 General works
- 758.A3-Z By region, state, or territory, A-Z
Offshore islands generally class with adjacent mainland
- 758.5 New Zealand
- 759.A-Z Pacific islands, A-Z
- Arctic regions see QE744
- 760 Antarctica
- Paleozoology
- 760.8 Periodicals, societies, congresses, serial publications
- 761 General works, treatises, and textbooks
- 763 Popular works
- 765 Juvenile works
- 766 Marine animals
- 767 Plankton
For stratigraphic divisions see QE724+
For geographical divisions see QE743+
- Invertebrates
- 770 General works, treatises, and textbooks
- Protozoa
- 771 General works, treatises, and textbooks
- 772 Foraminifera
- 773 Radiolaria
- 774.A-Z Other Protozoa, A-Z
- (774.D5) Dinoflagellates
see QE955
- 774.F5 Flagellata. Mastigophora
- 774.P6 Polycystida
- 774.T5 Thecamoebae. Testacea
- 774.T55 Tintinnida
- 775 Porifera (Sponges)
- Cnidaria
- 777 General works, treatises, and textbooks
- 778 Anthozoa (Corals)

Paleozoology

Invertebrates

Cnidaria -- Continued

779 Hydrozoa. Stromatoporoidea
For Graptolithina see QE840.5

780 Scyphozoa
Including Scyphomedusae and Conulata

780.5 Ctenophora

Echinodermata

781 General works, treatises, and textbooks

782 Crinozoa. Crinoidea

783.A-Z Other divisions, A-Z

783.A7 Asteroidea (True starfish)

783.B6 Blastoidea

783.C9 Cystoidea

783.D5 Diploporita

783.E2 Echinoidea

783.E3 Edrioasteroidea

783.H7 Holothurioidea

783.O6 Ophiuroidea

783.P3 Paracrinoidea

783.S8 Stelleroidea

783.S89 Stylophora

791 Worms and other vermiform invertebrates

Brachiopoda

796 General works, treatises, and textbooks

797.A-Z Systematic divisions, A-Z

797.A65 Articulata

797.A69 Athyrididae

797.A7 Atrypidae

797.C95 Cyrtinidae

797.D3 Delthyrididae

797.D5 Dielasmataidae

797.D6 Discinidae

797.I5 Inarticulata

797.K5 Kingenidae

797.L7 Lingulidae

797.O2 Obolidae

797.O7 Orthida

797.O75 Orthidae

797.P3 Paterinidae

797.P39 Pentamerida

797.P4 Pentameridae

797.P5 Playtstrophinae

797.P9 Productidae

797.R5 Rhynchonellida

797.S4 Septirhynchiidae

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 Invertebrates
 Brachiopoda
 Systematic divisions, A-Z -- Continued
 797.S7 Spiriferidae
 797.S8 Stringocephalidae
 797.S89 Strophomenida
 797.S9 Strophomenidae
 797.T29 Terebratulida
 (797.T3) Terebratulidae
 see QE797.T29
 797.T5 Thecidellinidae
 797.T8 Trimerellidae
 797.Z4 Zeilleriidae
 Bryozoa. Polyzoa
 798 General works, treatises, and textbooks
 799.A-Z Systematic divisions, A-Z
 799.C5 Cheilostomata
 799.C7 Cryptostomata
 799.C8 Ctenostomata
 799.C9 Cyclostomata
 799.E95 Expletocystida
 799.G95 Gymnolaemata
 799.M6 Monticuliporidae
 799.S74 Stenolaemata
 799.T7 Trepostomata
 Mollusca
 801 General works, treatises, and textbooks
 805 Monoplacophora. Amphineura. Aplacophora.
 Polyplacophora
 Cephalopoda
 806 General works, treatises, and textbooks
 807.A-Z Systematic divisions, A-Z
 807.A25 Actinoceratidae
 807.A5 Ammonoidea
 807.B4 Belemnitida
 807.C65 Clymeniida
 807.C7 Coleoidea
 807.D5 Dibranchiata
 Ecdyceras see QE807.H4
 807.E4 Ellesmeroceratidae
 807.E5 Endoceratoidea
 807.G56 Goniatitidae
 807.H4 Hebetoceratidae
 807.L3 Lamellorthoceratidae
 807.L7 Liparoceratidae
 807.L98 Lytoceratidae

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Systematic divisions, A-Z -- Continued

807.N4 Nautiloidea
 807.O8 Orthoceratidae
 807.P69 Platicerata
 807.S3 Salterellidae
 807.S4 Sepiida
 807.W8 Wutinoceratidae

Gastropoda

808 General works, treatises, and textbooks
 809.A-Z Systematic divisions, A-Z
 809.A18 Actaeonellidae
 809.A2 Actaeonidae
 809.A72 Archaeogastropoda
 809.B8 Buccinidae
 809.C4 Ceratopidae
 809.C48 Columbellidae
 809.C52 Conidae
 809.C9 Cypraeidae
 809.E55 Eotomariidae
 809.E64 Epitoniidae
 809.E9 Euomphalidae
 809.F3 Fasciolaridae
 809.M25 Macluridae
 809.M4 Mesogastropoda
 809.M8 Murchisoniata
 809.M85 Muricidae
 809.N3 Nassariidae
 809.N32 Naticidae
 809.N45 Neritidae
 809.O44 Olividae
 809.O6 Opisthobranchia
 809.P5 Platyceratidae
 809.P7 Prosobranchia
 809.P8 Pteropoda
 809.P9 Pulmonata
 809.P95 Pyramidellidae
 809.T5 Thaididae
 809.T88 Turridae
 809.T9 Turritellidae
 809.V2 Valenciennidae
 809.V3 Vasidae
 809.V7 Volutidae
 809.Z9 Zonitidae

Paleozoology

Invertebrates

Mollusca -- Continued

Bivalvia. Lamellibranchia. Pelecypoda

- 811 General works, treatises, and textbooks
- 812.A-Z Systematic divisions, A-Z
- 812.A8 Arcidae
- (812.A84) Astartidae
see QE812.V45
- 812.B83 Buchiidae
- 812.C3 Cardiidae
- 812.C35 Carditidae
- 812.C5 Chondrodontidae
- 812.C6 Conocardiidae
- 812.D5 Cypricardiacea see QE812.T34
- 812.D7 Diceratidae
- 812.D7 Dreissenidae
- 812.G7 Grammysiidae
- 812.G78 Gryphaeidae
- 812.H34 Halobiidae
- 812.H57 Hippuritidae
- 812.H573 Hippuritoida (Rudists)
- 812.I5 Inoceramidae
- Leptonacea see QE812.V45
- 812.M2 Mactridae
- 812.M48 Megalodontacea
- 812.M6 Monotidae
- 812.M9 Myalinidae
- 812.M94 Mytilidae
- 812.N6 Noetiidae
- 812.N8 Nucloidae
- 812.O8 Ostreidae
- 812.O87 Ostreoida
- 812.P38 Pectinacea
- 812.P4 Pectinidae
- 812.P48 Pholadidae
- 812.P5 Pholadomyoida
- 812.P65 Praeheterodonta
- 812.P7 Pterinidae
- 812.R33 Radiolitidae
- (812.R8) Rudista
see QE812.H573
- 812.S6 Solemyidae
- 812.S62 Solemyoida
- 812.T3 Tancrediidae
- 812.T34 Teleodesmacea
- 812.T37 Tellinidae

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 Invertebrates
 Mollusca
 Bivalvia. Lamellibranchia. Pelecypoda
 Systematic divisions, A-Z -- Continued
- 812.T4
 (812.T7) Teredinidae
 Trigoniidae
 see QE812.T74
- 812.T74 Trigonioida
 812.U6 Unionidae
 812.V4 Veneridae
 812.V45 Veneroida
 813 Scaphopoda
 814 Rostroconchia
- Arthropoda
 815 General works, treatises, and textbooks
 Crustacea. Mandibulata
- 816 General works, treatises, and textbooks
 817.A-Z Systematic divisions, A-Z
- 817.A6 Amphipoda
 817.A7 Arthrostraca
 817.B7 Branchiopoda
 817.C5 Cirripedia
 817.C6 Conchostraca
 817.C7 Copepoda
 817.D3 Decapoda
 817.E5 Entomostraca
 817.I8 Isopoda
 817.L5 Leptostraca
 817.M3 Malacostraca
 817.O8 Ostracoda
 Phyllopoda see QE817.B7
- 817.S3 Schizopoda
 817.S8 Stomatopoda
- Protarthropoda. Trilobitomorpha
 821 General works, treatises, and textbooks
 823.A-Z Systematic divisions, A-Z
- 823.A35 Agnostida
 823.C6 Corynexochida
 823.M3 Marrellidae
 823.P4 Pentastomida
 823.P5 Phacopida
 823.P53 Phillipsiidae
 823.P75 Proetida
 823.P76 Proetidae
 823.P79 Ptychopariida
 823.R4 Redlichiida

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 Arthropoda
 Protarthropoda. Trilobitomorpha
 Systematic divisions, A-Z -- Continued
 823.T2 Tardigrada
 Chelicerata. Merostomata. Arachnida
 825 General works, treatises, and textbooks
 826.A-Z Systematic divisions, A-Z
 826.A2 Acarina (Acari)
 826.A6 Araneida (Araneae)
 826.C5 Chernetidae (Pseudoscorpiones)
 826.E8 Eurypterida
 826.O63 Opiliones
 826.P3 Pedipalpi
 (826.P5) Phalangida
 see QE826.O63
 826.S4 Scorpionida
 826.S6 Solifugae
 826.X5 Xiphosurida
 Myriapoda
 828 General works, treatises, and textbooks
 829.A-Z Systematic divisions, A-Z
 829.C5 Chilopoda
 829.D5 Diplopoda
 Hexapoda. Insects
 831 General works, treatises, and textbooks
 832.A-Z Systematic divisions, A-Z
 832.A53 Anisoptera (Dragonflies)
 832.A55 Anoplura
 832.B55 Blattaria (Cockroaches)
 832.C6 Coleoptera (Beetles)
 832.C63 Collembola (Springtails)
 832.D47 Dermaptera (Earwigs)
 832.D6 Diptera (Flies, midges, mosquitoes)
 832.E52 Embioptera
 832.E65 Ephemeroptera (Mayflies)
 832.H4 Hemiptera (True bugs)
 832.H65 Homoptera
 832.H9 Hymenoptera (Ants, bees, wasps)
 832.I8 Isoptera (Termites)
 832.L5 Lepidoptera (Butterflies and moths)
 832.M34 Mallophaga (Biting lice)
 832.M43 Mecoptera (Scorpionflies)
 832.N5 Neuroptera
 832.O36 Odonata
 832.O7 Orthoptera

- Paleozoology
 - Invertebrates
 - Arthropoda
 - Hexapoda. Insects
 - Systematic divisions, A-Z -- Continued
 - 832.P45 Phasmatoptera (Stick insects)
 - 832.P55 Plecoptera (Stoneflies)
 - 832.P83 Psocoptera (Book lice)
 - 832.S47 Siphonaptera (Fleas)
 - 832.S87 Strepsiptera
 - 832.T5 Thysanoptera (Thrips)
 - 832.T8 Trichoptera (Caddisflies)
 - Chordata
 - 840.5 Cephalochordata. Tunicata. Hemichordata. Enteropneusta. Pterobranchia. Graptolithina
 - Vertebrates
 - 841 General works, treatises, and textbooks
 - 842 Juvenile works
 - 845 Fossil footprints
 - 846 Fossil teeth
 - 847 Amniotes
 - Fishes
 - 851 General works, treatises, and textbooks
 - 851.2 Ichthyoliths
 - 852.A-Z Systematic divisions, A-Z
 - 852.A25 Acipenseriformes
 - 852.A33 Agnatha
 - 852.A4 Amiiiformes
 - 852.A5 Anaspida
 - 852.A53 Anguilliformes
 - 852.A7 Arthrodira
 - 852.B47 Beryciformes
 - 852.C48 Chimaeriformes
 - 852.C52 Chondrichthyes
 - 852.C55 Clupeiformes
 - 852.C58 Coelacanthiformes
 - 852.C6 Coelolepida
 - 852.C7 Crossopterygii
 - 852.C95 Cypriniformes
 - 852.D5 Dipnoi
 - 852.D7 Drepanaspidae
 - 852.E55 Edestidae
 - (852.E6) Elasmobranchii
 - see QE852.C52
 - 852.E65 Elopiformes
 - 852.G26 Gadiformes
 - Ganoidei see QE852.S4

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Fishes

Systematic divisions, A-Z -- Continued

- 852.G37 Gasterosteiformes
- 852.G65 Gonorhynchiformes
- 852.H4 Heterostraci
- (852.H7) Holocephali
 - see QE852.C48
- 852.I35 Ichthyodectiformes
- 852.L35 Lamniformes
 - Cf. QL89.2.C37 Carcharocles megalodon
- 852.L45 Leptolepiformes
- 852.O45 Osteichthyes
- 852.O5 Osteostraci
- 852.P3 Palaeonisciformes
- 852.P4 Perciformes
- 852.P45 Pholidophoriformes
- 852.P5 Placodermi
- Plagiostomi see QE852.C52
- 852.P8 Ptycholepiformes
- 852.P9 Pycnodontiformes
- 852.R35 Rajiformes
- 852.R4 Redfieldiiformes
- 852.S2 Salmoniformes
- 852.S4 Semionotiformes
- (852.T2) Teleostei
 - see QE852.O45
- 852.T48 Tetraodontiformes
- 853 Fossil otoliths
- 861 Reptiles
 - General works, treatises, and textbooks
 - Dinosaurs
 - Class here works on dinosaurs in general
 - For works on specific orders of dinosaurs see QE862.A+
 - 861.2 Periodicals, societies, congresses, serial publications
 - 861.3 Dictionaries and congresses
 - 861.35 Computer network resources
 - Including the Internet
 - 861.4 General works
 - 861.5 Juvenile works
 - 861.6.A-Z Special topics, A-Z
 - 861.6.B44 Behavior
 - 861.6.E35 Eggs
 - 861.6.E95 Extinction

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Reptiles

Systematic divisions, A-Z -- Continued

862.T47

Thecodontia

862.T5

Therapsida

Amphibians. Batrachia

867

General works, treatises, and textbooks

868.A-Z

Systematic divisions, A-Z

868.A46

Aistopoda

868.A48

Anthracosauria

868.A5

Anura

868.A6

Apoda

868.B7

Branchiosauridae

868.C2

Caudata

868.D5

Dissorophidae

Ecaudata see QE868.A5

868.I25

Ichthyostegalia

868.L3

Labyrinthodontia

868.M53

Microsauria

868.P4

Pelobatidae

868.P5

Pipidae

868.R5

Rhachitomi

868.R53

Rhytidosteidae

Stegocephala see QE868.L3

Birds

871

General works, treatises, and textbooks

872.A-Z

Systematic divisions, A-Z

872.A15

Accipitres

872.A2

Aepyornithiformes

872.A3

Alcidae

872.A6

Anseriformes

872.A7

Apterygidae

872.A8

Archaeonithes (Sauriurae)

(872.A9)

Ardeiformes

see QE872.C53

872.C3

Casuariiformes

872.C53

Ciconiiformes

Coccyges see QE872.C9

872.C65

Coliiformes

872.C7

Columbidae

872.C75

Colymbidae (Gaviidae)

872.C77

Confuciusornithiformes

872.C8

Coraciiformes

872.C9

Cuculiformes

872.D5

Dinornithiformes

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Birds

Systematic divisions, A-Z -- Continued

- 872.E52 Enantiornithiformes
- 872.G15 Galliformes (Galli)
- 872.G27 Gastornithiformes
- Gaviidae see QE872.C75
- Gressores see QE872.C53
- 872.G8 Gruiformes (Ralliformes)
- 872.O2 Odontognathae (Odontoholcae)
- 872.O6 Opisthocomidae
- 872.P2 Passeriformes
- 872.P4 Pelicaniformes
- 872.P5 Piciformes
- 872.P6 Podargidae
- 872.P65 Prophaethontiformes
- 872.P7 Psitaciformes
- 872.P8 Pteroclididae
- Ralliformes see QE872.G8
- 872.R37 Ratites
- 872.R4 Rheiformes
- Sauriruae see QE872.A8
- 872.S4 Sphenisciformes
- 872.S5 Steatornithes
- Steganpodes see QE872.P4
- 872.S8 Strigiformes
- 872.S9 Struthioniformes
- Teratornis see QE872.V9
- 872.T5 Threskiornithidae (Ibises and spoonbills)
- 872.T56 Tinamiformes
- 872.V9 Vulturidae
- 875 Fossil eggs
- Mammals
- 881 General works, treatises, and textbooks
- 882.A-Z Systematic divisions, A-Z
- 882.C15 Carnivora
- 882.C5 Cetacea
- 882.C8 Chiroptera
- 882.C84 Cimolesta
- 882.C9 Creodonta
- 882.D4 Deltatheridia
- 882.D45 Desmostylia
- 882.D6 Docodonta
- 882.E2 Edentata. Xenarthra

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Systematic divisions, A-Z -- Continued

- 882.E75 Erinaceomorpha
Cf. QE882.I5 Insectivora. Insectivores
- 882.E86 Eupantotheria
- 882.H47 Herbivora
- 882.I5 Insectivora. Insectivores
Cf. QE882.E75 Erinaceomorpha
Cf. QE882.S67 Soricomorpha
- 882.L3 Lagomorpha
- 882.M25 Macroscelidea
- 882.M3 Marsupialia
General works
- 882.M32 Dasyuromorphia
- 882.M33 Didelphimorphia
- 882.M34 Diprotodontia
- 882.M35 Microbiotheria
- 882.M36 Notoryctemorphia
- 882.M37 Paucituberculata
- 882.M38 Peramelemorphia
- 882.M39 Sparassodonta
- 882.M6 Monotremata
- 882.M8 Multituberculata
- 882.N6 Notoungulata
- 882.P3 Pantotheria
- 882.P45 Pholidota
- 882.P5 Pinnipedia
- 882.P7 Primates
Cf. GN282+ Human paleontology
- 882.P8 Proboscidea
- 882.R6 Rodentia
- 882.S32 Scandentia
- 882.S6 Sirenia
- 882.S67 Soricomorpha
Cf. QE882.I5 Insectivora. Insectivores
- 882.T34 Taeniodontia
- (882.T49) Theria
see QE881
- (882.T5) Tillodontia
see QE882.C84
- 882.T8 Tubulidentata
- 882.U2 Ungulates
General works
- 882.U3 Artiodactyla

- Paleobotany
 - Stratigraphic divisions
 - Paleozoic -- Continued
 - 917 Silurian
 - 918 Devonian
 - Carboniferous
 - 919 General works
 - 919.3 Mississippian
 - 919.5 Pennsylvanian
 - 920 Permian
 - Mesozoic
 - 921 General works
 - 922 Triassic
 - 923 Jurassic
 - 924 Cretaceous
 - Cenozoic
 - 925 General works
 - Tertiary
 - 926 General works
 - Paleogene
 - 926.5 General works
 - 927 Paleocene
 - 927.2 Eocene
 - 928 Oligocene
 - Neogene
 - 928.5 General works
 - 929 Miocene
 - 930 Pliocene
 - Quaternary
 - 931 General works
 - 931.2 Pleistocene
 - 931.3 Holocene, Recent
 - Amber flora
 - Geographical divisions
 - Prefer the stratigraphic divisions
 - 934 Arctic regions
 - North America
 - 935 General works
 - United States
 - 936 General works
 - 937.A-Z By region or state, A-Z
 - Canada
 - 938.A1 General works
 - 938.A3-Z By region or province, A-Z
 - Mexico
 - 939.A1 General works
 - 939.A3-Z By region or state, A-Z

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Geographical divisions

North America -- Continued

West Indies. Caribbean Area

940.A1

General works

940.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Central America

941.A1

General works

941.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

South America

942.A1

General works

942.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Europe

943

General works

944

Great Britain

945.A-Z

Other regions or countries, A-Z

Asia

946.A1

General works

946.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Africa

947.A1

General works

947.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

Australia

948.A1

General works

948.A3-Z

By state or territory, A-Z

Offshore islands generally class with adjacent mainland

948.2

New Zealand

949.A-Z

Pacific islands, A-Z

950

Antarctica

Systematic divisions

955

Algae

Including Characeae, Dasycladaceae, diatoms,
dinoflagellates, nannofossils, and stromatolites

958

Fungi

959

Bryophyta (Liverworts and mosses)

Pteridophyta

960

General works

960.5

Psilophyta. Psilopsida

961

Pterophyta. Polypodiophyta (Ferns)

965

Sphenopsida. Equisetophyta

Hyeniales, Pseudoborniales, Calamitales, Equisetales,
Sphenophyllales

Paleobotany

Systematic divisions

Pteridophyta -- Continued

971

Lycopsida

Protolpidodendrales, Lepidodendrales, Pleuromeiales,
Isoetales, Lycopodiales, Selaginellales

Gymnosperms. Pinophyta

975

General works

Cycadophyta

976

General works

976.2

Cycadales

976.3

Cycadeoidales

976.4

Pteridospermales

Coniferophyta

977

General works

977.2

Coniferales

977.3

Ginkgoales

977.4

Gnetales

977.5

Taxales

978

Cordaitales

Angiospermophyta. Magnoliophyta

980

General works

981

Monocotyledons

983

Dicotyledons

989

Plants of unascertained position

990

Coal balls

991

Fossil woods. Fossil trees

992

Fossil leaves

Palynology

993

General works

993.2

Fossil pollen

996

Fossil spores

996.5

Fossil fruit and seeds

Natural history (General)

Periodicals, societies, congresses, serial publications

1

English

3

French

5

German

7

Other languages (not A-Z)

9

Collected works (nonserial)

9.5

International Biological Programme

11

Voyages and expeditions

Cf. Q115+ Scientific expeditions

Cf. QK5 Botanical expeditions

Cf. QL5 Zoological expeditions

13

Dictionaries and encyclopedias

Communication of information

13.2

General works

13.3

Information services

13.4

Computer network resources

Including the Internet

13.45

Natural history literature

14

Authorship

14.3

Philosophy

History

15

General works

21.A-Z

By region or country, A-Z

Biography

26

Collective

31.A-Z

Individual, A-Z

e.g.

31.A2

Agassiz

Audubon, John James see QL31.A9

31.D2

Darwin, Charles

31.H3

Haller

Linnaeus see QH44

31.M45

Mendel

31.W58

White, Gilbert

35

Directories

41

Pre-Linnaean works (through 1735)

Cf. QK41 Botany

Cf. QL41 Zoology

Works of Linnaeus (General)

43

General works

43.5

Minor works of Linnaeus

44

Works about Linnaeus

General works, treatises, and advanced textbooks

45

1736-1969

45.2

1970-

45.5

Popular works

QH	NATURAL HISTORY (GENERAL)	QH
46	Pictorial works and atlases Cf. TR721+ Nature photography	
46.5	Natural history illustration	
47	Elementary textbooks	
48	Juvenile works	
49	Vocational guidance	
	Study and teaching. Research. Nature study Cf. QH318.5 Biology fieldwork	
50.5	Directories	
51	General works	
53	Outlines, syllabi. Nature study manuals	
54	Problems, exercises, examinations	
54.5	Activity programs	
55	Experiments	
57	Audiovisual aids	
58	Nature trails Cf. HV1664.N38 Natural history for people with visual disabilities	
	Technique	
60	General works	
60.2	Data processing	
	Collection and preservation	
61	General works, treatises, and textbooks	
63	Instruments and apparatus	
68	Vivariums. Terrariums Cf. SB417 Glass gardens. Wardian cases Aquariums (Home and school) see SF456+ Aquariums (Public) see QL78+ Museums. Exhibitions For research serial publications see QH1+	
70.A1	General works	
70.A2-Z	By region or country, A-Z Subarrange each country by Table Q5	
72	Commercial lists, catalogs, etc. Nature conservation. Landscape protection. Biodiversity conservation. Endangered species and ecosystems (General). Habitat conservation. Ecosystem management. Conservation biology Including natural areas, nature reserves, wilderness areas, biosphere reserves, ecological reserves, environmentally sensitive areas Cf. GF90+ Landscape assessment Cf. GV191.67.W5 Recreational aspects of wilderness areas Cf. QH91.8.B6 Marine biology Cf. SK351+ Wildlife management areas	
75.A1	Periodicals, societies, congresses, serial publications	

Nature conservation. Landscape protection. Biodiversity conservation. Endangered species and ecosystems (General). Habitat conservation. Ecosystem management. Conservation biology -- Continued

75.A3-Z

General works, treatises, and textbooks

By region or country

United States

76

General works

76.5.A-Z

By region or state, A-Z

77.A-Z

Other regions or countries, A-Z

77.3.A-Z

Special topics, A-Z

77.3.C57

Citizen participation

77.3.C65

Communication of information

77.3.G46

Gender mainstreaming

77.3.S73

Statistical methods

77.3.T45

Teleology

78

Extinction (Biology)

Cf. QE721.2.E97 Paleontology

Cf. QL88+ Animal extinction

81

Addresses, essays, lectures. Nature books

Cf. GV191.2+ Outdoor life. Outdoor recreation

Cf. QH53 School manuals of nature study

Cf. QH58 Nature trails

Edible plants and animals. Wild food gathering

For cultivated plants and animals see S1+

Cf. QK98.5.A1+ Edible wild plants

Cf. QK617 Edible mushrooms

Cf. SH400+ Seafood gathering

Cf. SH401+ Fishing

Cf. SK1+ Hunting

82

General works

82.3.A-Z

By region or country, A-Z

83

Classification. Nomenclature

Cf. QK91+ Plant classification

Cf. QL351+ Animal classification

83.5

Terminology, notation, abbreviations

Geographical distribution. Biogeography. Phylogeography

Cf. QH543.3 Dispersal of organisms by environmental factors

84

General works, treatises, and textbooks

Cold regions. Polar regions

Including Arctic regions

84.1

General works

84.2

Antarctica

84.3

Temperate regions

84.5

Tropics

Cf. QH86 Rain forests

Geographical distribution. Biogeography. Phylogeography --
Continued

Physiographic divisions

Land

For biology of a particular place see QH101+

- 84.8 Soils
- 85 Islands
- 86 Forests
 - Including rain forests, old growth forests, etc.
- 87 Mountains
- 87.2 Valleys
- 87.3 Wetlands
 - Including marshes, swamps, moors, bogs, etc.
- (87.5) Moors
 - see QH87.3
- 87.7 Prairies. Grasslands
- 88 Deserts
- 88.5 Dunes
- 89 Caves

Water. Aquatic biology

For aquatic biology of a particular place see QH101+

Cf. GB855+ Natural water chemistry

- 90.A1 Periodicals, societies, congresses, serial publications
- 90.A4 Collected works (nonserial)
- 90.A5-Z General works, treatises, and textbooks
- 90.1 Addresses, essays, lectures
- 90.15 Popular works
- 90.16 Juvenile works
- 90.17 Pictorial works and atlases
- 90.2 Dictionaries and encyclopedias
- 90.25 History
 - For local history see QH101+
- Biography
 - 90.3.A2 Collective
 - 90.3.A3-Z Individual, A-Z
- 90.35 Directories
- 90.45 Aquatic biology as a profession. Vocational guidance
- Study and teaching. Research
 - 90.5 General works
 - 90.53 Outlines, syllabi
 - 90.55 Laboratory manuals
- 90.56 Collection and preservation
- Research methods and apparatus
 - 90.57.A1 General works, treatises, and textbooks
 - 90.57.A3-Z Special, A-Z
 - 90.57.A77 Artificial substrates
 - 90.57.B5 Biological assay. Biological assessment

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Research methods and apparatus

Special, A-Z -- Continued

90.57.D7

Dredging

Laboratories and stations

Cf. QH91.6+ Marine laboratories

Cf. QH96.6+ Freshwater laboratories

90.6

General works

90.65.A-Z

By region or country, A-Z

Subarrange each country by Table Q6

Museums. Exhibitions

Serial publications see QH90.A1

90.7.A1

General works

90.7.A2-Z

By region or country, A-Z

Subarrange each country by Table Q5

Aquatic parks and reserves

90.75.A1

General works, treatises, and textbooks

90.75.A3-Z

By region or country, A-Z

90.8.A-Z

Special topics, A-Z

90.8.B46

Benthos

Biodiversity see QH90.8.B56

90.8.B56

Biological diversity. Biodiversity. Biodiversity
conservation

For aquatic biodiversity conservation of a particular
region see QH76+

For aquatic biodiversity of a particular region see
QH101+

Ecology see QH541.5.W3

90.8.I57

Introduced aquatic organisms

90.8.N44

Nekton

90.8.P5

Plankton (General)

Cf. QH91.8.P5 Marine plankton

Cf. QH96.8.P5 Freshwater plankton

Cf. QK933+ Phytoplankton

Cf. QL123 Zooplankton

90.8.T68

Toxicology

Marine biology

Cf. QH541.5.S3 Marine ecology

91.A1

Periodicals, societies, congresses, serial publications

91.A4

Collected works (nonserial)

91.A5-Z

General works, treatises, and textbooks

91.1

Addresses, essays, lectures

91.15

Popular works

91.16

Juvenile works

91.17

Pictorial works and atlases

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Marine biology -- Continued

- 91.2 Dictionaries and encyclopedias
- 91.25 History
 - For local history see QH101+
- Biography
 - 91.3.A2 Collective
 - 91.3.A3-Z Individual, A-Z
 - 91.35 Directories
 - 91.45 Marine biology as a profession. Vocational guidance
- Study and teaching. Research
 - 91.5 General works
 - 91.53 Outlines, syllabi
 - 91.55 Laboratory manuals
 - 91.56 Collection and preservation
- Research methods and apparatus
 - 91.57.A1 General works, treatises, and textbooks
 - 91.57.A3-Z Special, A-Z
 - 91.57.A4 Aeronautics
 - 91.57.B5 Biological assay. Biological assessment
 - 91.57.C68 Counting and measuring
 - 91.57.D7 Dredging
 - 91.57.E4 Electronic data processing
 - 91.57.G46 Geographic information systems. GIS
 - GIS see QH91.57.G46
 - 91.57.M38 Mathematical models
 - Measuring see QH91.57.C68
 - 91.57.P4 Photosynthesis determination
 - 91.57.P5 Plankton sampling
 - 91.57.R47 Research ships
- Laboratories and stations
 - 91.6 General works
 - 91.65.A-Z By region or country, A-Z
 - Subarrange each country by Table Q6
- Museums. Exhibitions
 - Serial publications see QH90.A1
 - 91.7.A1 General works
 - 91.7.A2-Z By region or country, A-Z
 - Subarrange each country by Table Q5
- Marine parks and reserves
 - 91.75.A1 General works, treatises, and textbooks
 - 91.75.A3-Z By region or country, A-Z
- 91.8.A-Z Special topics, A-Z
 - 91.8.B4 Benthos
 - Biodiversity see QH91.8.B6

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Marine biology

Special topics, A-Z -- Continued

- 91.8.B5 Biological chemistry
- 91.8.B6 Biological diversity. Biodiversity. Biodiversity conservation
 For marine biodiversity of a particular region see QH101+
 For marine biodiversity conservation of a particular region see QH76+
 For marine biodiversity and biodiversity conservation of a particular body of water see QH92+
 Cf. QH91.8.S64 Species diversity
- 91.8.B63 Biological invasions
- 91.8.D44 Deep-sea biology
 For deep-sea biology of a particular region see QH92+
- 91.8.E3 Echo scattering layers
- Ecology see QH541.5.S3
- 91.8.E87 Eutrophication
 For marine eutrophication of a particular region see QH92+
- 91.8.E94 Exotic marine organisms
- 91.8.M3 Marine borers. Marine fouling organisms
 Marine eutrophication see QH91.8.E87
- 91.8.M34 Marine productivity
- 91.8.N37 Nekton
- 91.8.N4 Neuston
- 91.8.N46 Nitrogen cycle
- 91.8.O4 Oil pollution
- 91.8.P5 Plankton
 Cf. QK934 Marine phytoplankton
 Cf. QL123 Marine zooplankton
- 91.8.P7 Primary productivity
- 91.8.S64 Species diversity
- By region
 For marine biology of a particular region or country or off the coast of a particular region or country see QH101+
- Atlantic Ocean
- 92 General works
 North Atlantic Ocean
- 92.1 General works
 Coast of North America

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Marine biology

By region

Atlantic Ocean

North Atlantic Ocean

Coast of North America -- Continued

- 92.2 General works
- 92.3 Gulf of Mexico
- 92.4 Caribbean Sea
- 92.5.A-Z Other, A-Z
- 92.5.B33 Baffin Bay
- 92.5.G46 Georges Bank
- 92.5.M34 Maine, Gulf of

Coast of Europe

- 92.6 General works
- 92.7 Baltic Sea
- 92.8 North Sea
- 92.9.A-Z Other, A-Z
- 92.9.B57 Biscay Bay
- 92.9.E54 English Channel

Mediterranean Sea

- 93 General works
- 93.1 Adriatic Sea
- 93.2 Aegean Sea
- 93.3 Black Sea
- 93.4 Caspian Sea
- 93.5.A-Z Other, A-Z

South Atlantic Ocean

- 93.6 General works
- Coast of Africa
- 93.7 General works
- 93.75 Gulf of Guinea
- 93.8 Coast of South America
- 93.9.A-Z Other, A-Z

Indian Ocean

- 94 General works
- 94.2 Arabian Sea
- 94.3 Red Sea
- 94.4 Persian Gulf
- 94.5 Bengal, Bay of
- 94.7.A-Z Other, A-Z

Pacific Ocean

- 95 General works
- North Pacific Ocean
- 95.1 General works

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Marine biology

By region

Pacific Ocean

North Pacific Ocean -- Continued

Coast of Asia

95.2

General works

95.22

China Sea

95.23

Yellow Sea

95.24

Japan Sea

95.25

Sea of Okhotsk

95.26

Bering Sea

95.28.A-Z

Other, A-Z

Coast of North America

95.3

General works

95.35

Gulf of Alaska

95.38

Salish Sea

95.4

Coast of Mexico and Central America

95.45.A-Z

Other, A-Z

South Pacific Ocean

95.5

General works

95.52

Coast of South America

95.53

Coral Sea

95.54

Tasman Sea

95.55.A-Z

Other, A-Z

Arctic Ocean

Including polar oceans

95.56

General works

95.57.A-Z

Arctic seas, A-Z

95.58

Antarctic Ocean

95.59

Tropical seas

95.6.A-Z

Inland seas, A-Z

Cf. QH93+ Mediterranean Sea

Cf. QH93.4 Caspian Sea

95.7

Seashore biology

For works limited to a particular region or country see

QH101+

95.8

Coral reefs

95.9

Brackish water. Saline water

Freshwater biology. Limnology

For works limited to specific geographic areas see

QH101+

96.A1

Periodicals, societies, congresses, serial publications

96.A4

Collected works (nonserial)

96.A5-Z

General works, treatises, and textbooks

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Freshwater biology. Limnology -- Continued

- 96.1 Addresses, essays, lectures
- 96.15 Popular works
- 96.16 Juvenile works
- 96.17 Pictorial works and atlases
- 96.2 Dictionaries and encyclopedias
- 96.25 History
 - For local history see QH101+
- Biography
 - 96.3.A2 Collective
 - 96.3.A3-Z Individual, A-Z
 - 96.35 Directories
 - 96.45 Freshwater biology as a profession. Vocational guidance
 - Study and teaching. Research
 - 96.5 General works
 - 96.53 Outlines, syllabi
 - 96.55 Laboratory manuals
 - 96.56 Collection and preservation
 - Research methods and apparatus
 - 96.57.A1 General works, treatises, and textbooks
 - 96.57.A3-Z Special, A-Z
 - 96.57.P75 Productivity measurement
 - 96.57.R33 Radioactive tracers
 - 96.57.S73 Statistical methods
 - Laboratories and stations
 - 96.6 General works
 - 96.65.A-Z By region or country, A-Z
 - Subarrange each country by Table Q6
 - Museums. Exhibitions
 - 96.7.A1 General works
 - 96.7.A2-Z By region or country, A-Z
 - Subarrange each country by Table Q5
 - Aquatic parks and reserves
 - 96.75.A1 General works, treatises, and textbooks
 - 96.75.A3-Z By region or country, A-Z
 - Special topics, A-Z
 - 96.8.A-Z
 - 96.8.B4 Benthos
 - Biodiversity see QH96.8.B53
 - 96.8.B5 Biological assay. Biological assessment

Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Freshwater biology. Limnology

Special topics, A-Z -- Continued

96.8.B53

Biological diversity. Biodiversity. Biodiversity conservation

For freshwater biodiversity conservation of a particular region see QH76+

For freshwater biodiversity of a particular region see QH101+

Ecology see QH541.5.F7

96.8.E9

Eutrophication

96.8.I57

Introduced freshwater organisms

96.8.N48

Neuston

96.8.P43

Periphyton

96.8.P5

Plankton

Cf. QK935 Freshwater phytoplankton

Cf. QL143 Freshwater zooplankton

96.8.P7

Primary productivity

96.8.R34

Remote sensing

96.8.R35

Reservoir drawdown

Special freshwater environments

97

Streams

98

Lakes. Ponds

99

Springs

100

Snow and ice

Topographical divisions

America

101

General works

North America

102

General works

United States

104

General works

104.5.A-Z

By region, A-Z

104.5.A6

Appalachian Mountains

104.5.A62

Appalachian Region, Southern

104.5.A74

Arkansas River

104.5.A84

Atlantic Coast

104.5.A85

Atlantic States

104.5.B42

Beartooth Mountains (Mont.and Wyo.)

104.5.B45

Bitterroot Range (Idaho and Mont.)

104.5.B47

Black Hills (S. D. and Wyo.)

104.5.B49

Blue Mountains (Or. and Wash.)

104.5.B5

Blue Ridge Mountains

104.5.C25

Caddo Lake and Region (La. and Tex.)

104.5.C3

Cascade Range

Geographical distribution. Biogeography. Phylogeography
 Topographical divisions

America

North America

United States

By region, A-Z -- Continued

- 104.5.C35 Champlain, Lake
- 104.5.C45 Chesapeake Bay
- 104.5.C48 Clinch River (Va. and Tenn.)
- 104.5.C58 Colorado Plateau
- 104.5.C6 Colorado River (Colo.-Mexico)
- 104.5.C64 Columbia Plateau. Columbia River
- 104.5.C74 Cross Timbers (Okla. and Tex.)
- 104.5.C85 Cumberland Mountains
- 104.5.D4 Death Valley (Calif. and Nev.). Death Valley
 National Park (Calif. and Nev.)
- 104.5.D44 Delaware River
- 104.5.D46 Delmarva Peninsula
- 104.5.D48 Detroit River (Mich. and Ont.)
- Dismal Swamp see QH105.V8
- 104.5.E37 East
- 104.5.E73 Erie, Lake
- Four Corners Region see QH104.5.S6
- 104.5.F76 Front Range (Colo. and Wyo.)
- 104.5.G68 Great Basin
- 104.5.G7 Great Lakes
- 104.5.G73 Great Plains
- Great Smoky Mountains see QH105.N8
- 104.5.G84 Gulf Coast
- 104.5.H53 High Plains
- 104.5.H83 Hudson River
- 104.5.H86 Huron, Lake (Mich. and Ont.)
- 104.5.K55 Klamath Mountains (Or. and Calif.). Klamath River
 Watershed (Or. and Calif.)
- 104.5.L34 Lake States
- 104.5.M24 Maine, Gulf of
- 104.5.M39 Mexican-American Border Region
- 104.5.M44 Michigan, Lake
- 104.5.M45 Middle Atlantic States
- 104.5.M47 Middle West
- 104.5.M5 Mississippi River. Mississippi River Valley
- 104.5.M56 Missouri River
- 104.5.N36 Nanticoke River (Del. and Md.)
- 104.5.N4 New England
- 104.5.N45 New York Region
- 104.5.N54 Niobrara River (Wyo. and Neb.)
- 104.5.N58 Northeastern States

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

North America

United States

By region, A-Z -- Continued

- 104.5.N6 Northwest, Pacific
- 104.5.N62 Northwestern States
- 104.5.O58 Ontario, Lake (N.Y. and Ont.)
- 104.5.O9 Ozark Mountains
- 104.5.P32 Pacific Coast
- 104.5.P54 Piedmont Region
- 104.5.P67 Potomac River
- 104.5.R33 Red River Valley (Minn. and N.D.- Man.)
- 104.5.R56 Rio Grande Region
- 104.5.R6 Rocky Mountains
- 104.5.S25 San Juan River
- 104.5.S255 San Luis Valley (Colo. and N.M.)
- 104.5.S27 Savannah River (Ga. and S. C.)
- 104.5.S54 Sierra Nevada
- 104.5.S545 Siskiyou Mountains (Calif. and Or.)
- 104.5.S55 Snake River
- 104.5.S58 Sonoran Desert
- 104.5.S59 Southern States
- 104.5.S6 Southwest. Four Corners Region
- 104.5.S85 Superior. Lake
- 104.5.T46 Tennessee River Valley
- 104.5.W29 Wasatch Range (Utah and Idaho)
- 104.5.W4 West (U.S.)
- 104.5.W47 White Mountains (Calif. and Nev.)
- 104.5.W48 White Mountains (N.H. and Me.)
- 104.5.Y44 Yellowstone River
- 104.5.Y85 Yukon River Valley (Yukon and Alaska)
- 105.A-.W By state, A-W

e.g.

Hawaii see QH198.H3

- 105.N8 North Carolina
- Including Great Smoky Mountains
- 105.V8 Virginia
- Including Dismal Swamp

Canada

- 106 General works
- 106.2.A-Z By region or province, A-Z
- For regions that include both the United States and Canada see QH104.5.A+

Latin America

- 106.5 General works

Geographical distribution. Biogeography. Phylogeography
Topographical divisions

America

Latin America -- Continued

107

Mexico

For regions that include both the United States and
Mexico see QH104.5.A+

Central America

108.A1

General works

108.A2-Z

By region or country, A-Z

108.B43

Belize. British Honduras

British Honduras see QH108.B43

108.C6

Costa Rica

El Salvador see QH108.S3

108.G8

Guatemala

108.H6

Honduras

108.N5

Nicaragua

108.P3

Panama

108.S3

El Salvador

West Indies. Caribbean Area

109.A1

General works

109.A2-Z

By island or group of islands, A-Z

109.A48

Antigua and Barbuda

109.A5

Antilles, Lesser

109.B3

Bahamas

109.B35

Barbados

Bermuda see QH110

109.B66

Bonaire

109.C38

Cayman Islands

109.C9

Cuba

109.C93

Curaçao

109.D65

Dominica

109.D66

Dominican Republic

109.F74

French West Indies

109.G74

Grenada

109.G8

Guadeloupe

109.H3

Haiti

Hispaniola see QH109.D66

Hispaniola see QH109.H3

109.J5

Jamaica

109.N48

Netherlands Antilles

Cf. QH109.B66 Bonaire

Cf. QH109.C93 Curaçao

Cf. QH109.S22 Saba

Cf. QH109.S55 Sint Eustatius

Cf. QH109.S56 Sint Maarten

109.P6

Puerto Rico

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

Latin America

West Indies. Caribbean Area

By island or group of islands, A-Z -- Continued

- 109.S22 Saba
- 109.S24 Saint Kitts and Nevis
- 109.S25 Saint Lucia
- 109.S28 Saint Vincent and the Grenadines
- 109.S55 Sint Eustatius
- 109.S56 Sint Maarten
- 109.T8 Trinidad and Tobago
- 109.T82 Turks and Caicos Islands
- 109.V55 Virgin Islands

West Indies, French see QH109.F74

110

Bermuda

South America

111

General works

By region or country

- 112 Amazon River. Amazonia
- 113 Argentina
- 115 Bolivia
- 117 Brazil
- 119 Chile
- 121 Colombia
- 123 Ecuador
 - For Galapagos Islands see QH198.G3
- Guianas
 - 125 General works
 - 125.2 French Guiana
 - 125.4 Guyana (British Guiana)
 - 125.6 Suriname (Dutch Guiana)
 - 125.85 Orinoco River (Venezuela and Colombia)
 - 127 Paraguay
 - 128 Peru
 - 128.5 Titicaca Lake (Peru and Bolivia)
 - 129 Uruguay
 - 130 Venezuela

Atlantic Ocean islands

- 132.A1 General works
- 132.A2-Z By island or group of islands, A-Z
- 132.A9 Azores
 - Bermuda see QH110
- 132.B68 Bouvet Island
- Cabo Verde see QH132.C33
- 132.C3 Canary Islands

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Atlantic Ocean islands

By island or group of islands, A-Z -- Continued

- 132.C33 Cape Verde. Cabo Verde
- 132.F34 Falkland Islands
- 132.F37 Faroe Islands
- 132.G73 Greenland
- 132.M28 Macaronesia
- 132.M3 Madeira Islands. Salvages Islands
Salvages Islands see QH132.M3
- 132.S644 South Georgia Island
- 132.S646 South Orkney Islands
West Indies see QH109.A1+

Europe

- 135 General works
- By region or country
 - British Isles. Great Britain
 - 137 General works
 - England
 - 138.A1 General works
 - 138.A3-Z Local, A-Z
 - e.g.
 - 138.S4 Selborne
 - 141 Scotland
 - 143 Ireland
 - 143.5 Northern Ireland
 - 144 Wales
 - 145 Austria
 - 147 France
 - Including the Riviera
 - 149 Germany
 - 150 Mediterranean Region (General)
 - Including Islands of the Mediterranean
 - 151 Greece
 - 152 Italy
 - 154 Malta
 - 157 Belgium
 - 158 Luxembourg
 - 159 Netherlands
 - Russia. Soviet Union. Russia (Federation)
 - 161 General works
 - Russia in Asia see QH191
 - 161.5 Belarus
 - 161.6 Moldova
 - 161.7 Ukraine
 - 162 Poland

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Europe

By region or country -- Continued

- 164 Scandinavia (General)
- 165 Denmark
 - Faroe Islands see QH132.F37
- 166 Iceland
- 168 Norway
- 169 Sweden
- Spain
 - 171 General works
 - 171.2 Balearic Islands
 - Canary Islands see QH132.C3
 - 173 Portugal
 - For Azores see QH132.A9
 - 175 Switzerland
 - Including Alps (General)
 - 177 Balkan Peninsula
 - Including Turkey in Europe
 - For Turkey in Asia see QH192
- 178.A-Z Other European regions or countries, A-Z
 - 178.A47 Albania
 - 178.A53 Andorra
 - 178.A73 Ardennes
 - 178.A85 Atlantic Coast
 - 178.A95 Azov, Sea of (Ukraine and Russia)
 - 178.B9 Bulgaria
 - 178.C28 Carpathian Mountains Region
 - 178.C29 Caspian Sea
 - 178.C33 Caucasus
 - 178.C36 Central Europe
 - 178.C7 Crete
 - 178.C73 Croatia
 - 178.C8 Czechoslovakia. Czech Republic
 - 178.D36 Danube River Valley
 - 178.D54 Dnieper River Watershed
 - 178.D6 Donets Basin (Ukraine and Russia)
 - 178.E88 Estonia
 - 178.F5 Finland
 - 178.H8 Hungary
 - Islands of the Mediterranean see QH150
 - 178.I87 Istria
 - 178.J85 Jura Mountains
 - 178.L28 Lapland
 - 178.L34 Latvia
 - 178.L45 Liechtenstein

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Europe

By region or country

Other European regions or countries, A-Z -- Continued

- 178.L5 Lithuania
- 178.M23 Macedonia (Republic)
- Mediterranean Region see QH150
- 178.N67 North Sea Region
- 178.P53 Pieniny Range (Poland and Slovakia)
- 178.P97 Pyrenees
- 178.R55 Rhine River Valley
- 178.R57 Riga, Gulf of (Latvia and Estonia)
- 178.R8 Romania
- 178.S27 San Marino
- 178.S37 Serbia
- 178.S65 Slovakia
- 178.S66 Slovenia
- 178.T57 Tisza River Valley
- 178.W47 Western Bug River Region
- 178.Y8 Yugoslavia
- 178.5 Eurasia

Asia

- 179 General works
- By region or country
- 181 China
- 183 India
- 183.5 Sri Lanka
- Indochina
- 184 General works
- 184.2 Cambodia
- 184.4 Laos
- 184.6 Vietnam
- 185 Malaysia. Malay Peninsula
- 186 Indonesia
 - For Papua see QH186.5
- 186.5 New Guinea
 - Including Papua (Indonesia) and Papua New Guinea
- 187 Philippines
- Japan
- 188 General works
- 188.3 Ryuku Islands
 - Including Okinawa Prefecture
- 189 Iran
- 190 Kuwait
- 191 Russia in Asia. Siberia. Russian Far East
- Central Asia

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Asia

By region or country

Central Asia -- Continued

- 191.3 General works
- 191.4 Kazakhstan
- 191.5 Kyrgyzstan
- 191.6 Tajikistan
- 191.7 Turkmenistan
- 191.8 Uzbekistan
- 192 Turkey in Asia
- 192.5 Caucasus
 - Including Armenia, Azerbaijan, Georgia (Republic)
- 193.A-Z Other Asian regions or countries, A-Z
- 193.A34 Afghanistan
- 193.B35 Bangladesh
- 193.B48 Bhutan
- 193.B65 Borneo
- 193.B7 Brunei
- 193.B93 Burma. Myanmar
- Caspian Sea see QH178.C29
- 193.C8 Cyprus
- 193.E18 East Asia
- 193.G35 Ganges River
- 193.G62 Gobi Desert
- 193.G64 Golan Heights
- 193.H5 Himalayan Mountains
- 193.I7 Iraq
- 193.I8 Israel. Palestine
- 193.J6 Jordan
- 193.K57 Kopet Dag (Turkmenistan and Iran)
- 193.K6 Korea
- 193.L42 Lebanon
- 193.M25 Macau
- 193.M28 Malacca, Strait of
- 193.M6 Mongolia
- Myanmar see QH193.B93
- 193.N4 Nepal
- 193.O5 Oman
- 193.P28 Pakistan
- Palestine see QH193.I8
- 193.P33 Pamir-Alai Mountains
- 193.P349 Persian Gulf
- 193.P35 Persian Gulf Region
- 193.P352 Persian Gulf States
- 193.Q2 Qatar

Geographical distribution. Biogeography. Phylogeography
Topographical divisions

Asia

By region or country

Other Asian regions or countries, A-Z -- Continued

- 193.S28 Saudi Arabia
- 193.S46 Singapore
- 193.S59 South Asia
- 193.S6 Southeast Asia
- 193.S9 Syria
- 193.T35 Taiwan
- 193.T46 Thailand
- 193.T48 Tien Shan
- 193.U5 United Arab Emirates
- (193.V53) Vietnam
 - see QH184.6
- 193.Y4 Yemen

Africa

General works

By region or country, A-Z

- 194 Africa, Central see QH195.C37
- 195.A-Z Africa, East
- 195.A23 Africa, Eastern
- 195.A24 Africa, French-speaking Equatorial
- 195.A25 Africa, French-speaking West
- 195.A3 Africa, North
 - Cf. QH150 Mediterranean Region
- 195.A312 Africa, Northeast
- 195.A323 Africa, Southern
- Africa, Southwest see QH195.N29
- Africa, Sub-Saharan see QH195.S87
- Africa, West see QH195.W46
- 195.A4 Algeria
- 195.B6 Botswana
- 195.B92 Burkina Faso
- 195.C36 Cameroon
- 195.C37 Central Africa
- 195.C38 Central African Republic
- 195.C45 Chad
- 195.C46 Chad, Lake
- 195.C58 Congo (Brazzaville)
- 195.C6 Congo (Democratic Republic). Zaire
- Côte d'Ivoire see QH195.I9
- 195.E4 Egypt
- 195.E76 Equatorial Guinea
- 195.E8 Ethiopia
- 195.G3 Gabon

Geographical distribution. Biogeography. Phylogeography
 Topographical divisions

Africa

By region or country, A-Z -- Continued

- 195.G34 Gambia
 195.G53 Ghana
 195.G84 Guinea
 195.G85 Guinea-Bissau
 195.I9 Ivory Coast. Côte d'Ivoire
 195.K3 Kalahari Desert
 195.K4 Kenya
 195.L47 Lesotho
 195.L7 Liberia
 195.M2 Madagascar
 195.M47 Malawi
 195.M475 Mali
 195.M479 Mauritania
 195.M4793 Mayumbe
 195.M5 Morocco
 195.M6 Mozambique
 (195.N27) Namib Desert
 see QH195.N29
 195.N29 Namibia. Southwest Africa
 195.N49 Niger River
 195.N5 Nigeria
 195.N55 Nile River. Nile River Watershed
 195.O38 Okavango River
 Rhodesia, Northern see QH195.Z3
 Rhodesia, Southern see QH195.Z55
 195.R53 Rift Valley
 195.R9 Ruwenzori Mountains
 195.R92 Rwanda
 195.S3 Sahara
 195.S33 Sahel
 195.S34 Sao Tome and Principe
 195.S36 Senegal
 195.S53 Sierra Leone
 195.S6 South Africa
 195.S67 South Sudan
 Southern Africa see QH195.A323
 195.S72 Stanley Pool (Congo (Brazzaville) and Zaire)
 195.S87 Sub-Saharan Africa
 195.S9 Sudan
 195.S92 Sudan (Region)
 195.T28 Tanganyika, Lake
 195.T3 Tanzania
 195.T53 Togo

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Africa

By region or country, A-Z -- Continued

- 195.U4 Uganda
- 195.V5 United Arab Republic see QH195.E4
- 195.W46 Victoria, Lake
- 195.Z3 West Africa
- 195.Z3 Zambia
- 195.Z55 Zimbabwe

Indian Ocean islands

General works

By island or group of islands, A-Z

- 196.A1 Aldabra Islands
- 196.A2-Z Chagos Islands
- 196.A4 Christmas Island
- 196.C53 Cocos (Keeling) Islands
- 196.C55 Comoros
- 196.C62 Heard Island
- 196.C64 Kerguelen
- 196.H43 Madagascar see QH195.M2
- 196.K3 Marion Island
- 196.M35 Mauritius
- 196.M38 Including Rodrigues
- 196.M39 Mayotte
- 196.R4 Réunion
- 196.S2 Rodrigues see QH196.M38
- 196.S4 Saint Paul
- 196.S4 Seychelles

Australasia

General works

Australia

- 197 General works
- 197.2.A-Z By state, territory, or region, A-Z
- 197.5 New Zealand

Pacific Area. Pacific islands

General works

By island or group of islands, A-Z

- 198.A1 American Samoa
- 198.A2-Z Bismarck Archipelago
- 198.A44 Campbell Island
- 198.B5 Cook Islands
- 198.C3 Enewetak Atoll
- 198.C65 Fanning Island
- 198.E53 Fiji
- 198.F3 French Polynesia
- 198.F55 Galapagos Islands
- 198.F74
- 198.G3

Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Australasia

Pacific Area. Pacific islands

By island or group of islands, A-Z -- Continued

- 198.G8 Guam
- 198.H3 Hawaiian Islands
- 198.J64 Johnston Island
- 198.K57 Kiribati
- 198.M18 Mariana Islands
- 198.M2 Marquesas Islands
- 198.M34 Marshall Islands
- 198.M48 Micronesia
- 198.M5 Midway Islands
- 198.N4 New Caledonia
- 198.P4 Pelew Islands
- 198.P57 Pitcairn Islands
 - Including Ducie Atoll, Henderson Island, Oeno Atoll,
and Pitcairn Island
 - Samoa see QH198.W5
- 198.S3 Samoan Islands
- 198.S5 Snares Islands (N.Z.)
- 198.S6 Solomon Islands
- 198.S67 Spratly Islands
- 198.T35 Tahiti
- 198.T66 Tonga
- 198.T88 Tuvalu
- 198.V35 Vanuatu
- 198.W5 Western Samoa. Samoa
- (199) Arctic regions
 - see QH84.1
- (199.5) Antarctica
 - see QH84.2
- Tropical regions see QH84.5
- Microscopy
- 201 Periodicals, societies, congresses, serial publications
- 202 Collected works (nonserial)
- 203 Dictionaries and encyclopedias
- 204 History
 - General works, treatises, and textbooks
 - Including handbooks
 - Cf. QH277 Popular works
 - 205 Through 1969
 - 205.2 1970-
 - 206 Study and teaching. Research
 - 207 Technique
 - Cf. QH231+ Preparation and mounting of objects

Microscopy -- Continued

Microscopes

Cf. QC370.5+ Optical instruments

- 211 General works, treatises, and textbooks
Class application of microscopic techniques with the subject to which they are applied, e.g. QE434 Microscopic analysis of rocks
- 212.A-Z Special microscopes, A-Z
Including the use and microscopy of special microscopes
- 212.A25 Acoustic microscopes
- 212.A76 Atom-probe field ion microscopes
- 212.A78 Atomic force microscopes
- 212.C6 Compound microscopes
- Confocal microscopes see QH224
- 212.D5 Dissecting microscopes
- 212.E4 Electron microscopes
- 212.F5 Field ion microscopes
- 212.F55 Fluorescence microscopes
- 212.I5 Interference microscopes
- 212.M84 Multiphoton excitation microscopes
- 212.N43 Near-field microscopes
- 212.P5 Phase-contrast microscopes
- 212.P6 Polarizing microscopes
- 212.P7 Proton microscopes
- 212.S24 Scanning Auger electron microscopes
- 212.S28 Scanning electrochemical microscopes
- 212.S3 Scanning electron microscopes
Including low-voltage scanning electron microscopes
- 212.S32 Scanning force microscopes
- 212.S33 Scanning probe microscopes
- 212.S34 Scanning transmission electron microscopes
- 212.S35 Scanning tunneling microscopes
- 212.T7 Transmission electron microscopes
- 212.U48 Ultraviolet microscopes
- 212.X2 X-ray microscopes
- 213 Accessories and their use
- 215 Illuminating apparatus
- 217 Polarizing apparatus
Cf. QH212.P6 Polarizing microscopes
- 219 Catalogs of apparatus and supplies
- 221 Chemical microscopy
Cf. QD98.M5 Microchemical analysis
- 222 Video microscopy
- 224 Confocal microscopy
Including confocal fluorescence microscopy
- 225 Cryomicroscopy
Preparation of microscope specimens. Microtechnique

Microscopy

Preparation of microscope specimens. Microtechnique --

Continued

- 231 General works
- 233 Microtomy. Sectioning
- 234 Embedding
 - Including specific embedments
- 235 Fixation
- 236 Freeze etching
- 236.2 Freeze fracturing
- 237 Staining
- 239 Mounting
- 251 Photomicrography
- 255 Microcinematography
- Microphotometry see QC391
- 261 Pictorial works and atlases
- Microscopic observations (General)
 - 271 Through 1800
 - 273 1801-1969
 - 273.2 1970-
- (274) Microorganisms
 - see QR
- (275) Aquatic microorganisms
 - see QR105+
- 277 Popular works
- 278 Juvenile works
- 278.5 Recreations

- Biology (General)
 Cf. N72.B5 Biology and art
 Cf. N72.B56
- 301 Periodicals, societies, congresses, serial publications
- 302 Collected works (nonserial)
- 302.5 Dictionaries and encyclopedias
- Communication in biology
 Cf. QH318 Biological illustration
- 303 General works, treatises, and textbooks
 Information services
 Including databases (General)
- 303.15 Directories
- 303.2 General works, treatises, and textbooks
- 303.4.A-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 303.5 Computer network resources
 Including the Internet
- 303.6 Biological literature. Life sciences literature
- 304 Authorship
 Including practical manuals and stylebooks
 Cf. PE1475 Preparation of scientific papers in English
- 304.5 Terminology, notation, abbreviations
 For nomenclature see QH83
- History and conditions
 Cf. QH361 History of evolution
- 305 General works
- 305.2.A-Z By region or country, A-Z
- 305.5 Women life scientists. Women biologists
- 306 Early works through 1860
 General works and treatises
- 307 1861-1969
- 307.2 1970-
- Textbooks
- Advanced
- 308 Through 1969
- 308.2 1970-
- Elementary
- 308.5 Through 1969
- 308.7 1970-
- 309 Popular works
- 309.2 Juvenile works
- 310 Handbooks, tables, formulas, etc.
- 311 Addresses, essays, lectures
- 313 Special aspects of the subject as a whole
- 313.5.A-Z Special topics, A-Z
- 313.5.F67 Forensic biology
- 314 Biology as a profession. Vocational guidance

- Study and teaching. Research
- 315 General works
- 315.25 Teacher training
- 315.3 Audiovisual aids
- 315.5 Outlines, syllabi
- 316 Problems, exercises, examinations
- 316.4 Activity programs
- 316.5 Experiments
- 317 Laboratory manuals
- 318 Biological illustration
- 318.5 Fieldwork
Cf. QH58 Nature trails
- By region or country
- United States
- 319.A1 General works
- 319.A2-Z By region or state, A-Z
- 320.A-Z Other regions or countries, A-Z
- Biological laboratories and stations
Class here descriptive works, administrative reports, etc.
For scientific contributions (serial) see QH301
Cf. QH90.6+ Aquatic biological laboratories
Cf. QH91.6+ Marine biological laboratories
Cf. QH96.6+ Freshwater biological laboratories
- 321 General works
- By region or country
- United States
- 321.5 General works
- 322.A-Z Individual laboratories and stations. By name, A-Z
- 323.A-Z Other regions or countries, A-Z
Subarrange each country by Table Q6
- 323.2 Safety measures
- 323.5 Biometry. Biomathematics. Mathematical models
Cf. QH507 Information theory in biology
- Methods of research. Technique. Experimental biology
Cf. QH585+ Cytology
- 324 General works
- 324.15 Biological resource centers
Cf. QH442.4 Gene libraries
- Data processing. Bioinformatics
- 324.2 General works
- 324.25 Artificial intelligence
- 324.27 Data mining
- Tracers
- 324.3 General works
- 324.35.A-Z Special elements. By chemical symbol, A-Z (Table Q1)
- 324.4 Germfree life
- Instruments and apparatus (General)

Methods of research. Technique

Instruments and apparatus (General) -- Continued

- 324.42 General works
- 324.5 Catalogs of apparatus and supplies
- 324.8 Biological models
- 324.9.A-Z Other special, A-Z
- 324.9.A88 Autoclaving
- 324.9.A9 Autoradiography
- 324.9.B48 Biophotometry
- 324.9.B49 Biophysical labeling
- 324.9.B5 Biotelemetry
- 324.9.C3 Calorimetry
- 324.9.C4 Centrifugation
- Centrifugation, Density gradient see QH324.9.D46
- 324.9.C7 Cryobiology. Freeze-drying
- 324.9.D46 Density gradient centrifugation
- 324.9.E36 Electron paramagnetic resonance
- 324.9.E38 Electron probe microanalysis
- 324.9.E4 Electrophoresis
- 324.9.E44 Ellipsometry
- 324.9.E5 Enzymatic analysis
- (324.9.F38) Flow cytometry
 - see QH585.5.F56
- 324.9.F4 Fluorescence spectroscopy
- Freeze-drying see QH324.9.C7
- 324.9.I5 Infrared spectroscopy
- 324.9.I8 Isolation perfusion
- 324.9.L37 Lasers
- 324.9.L5 Liquid chromatography
- 324.9.L53 Liquid scintillation counting
- 324.9.M28 Magnetic resonance
- 324.9.M3 Manometry
- 324.9.M5 Microprobe analysis
- 324.9.N48 Neutron scattering
- 324.9.N8 Nuclear magnetic resonance
- 324.9.R3 Radioactivation analysis
- 324.9.S4 Separation
- 324.9.S53 Spectrophotometry
- 324.9.S6 Spectroscopy
- 324.9.S62 Spin labels
- 324.9.S95 Synchrotron radiation
- 324.9.T45 Three-dimensional imaging
- 324.9.X2 X-ray microanalysis
- 325 Origin and beginnings of life
- 326 Exobiology
 - Cf. QB54 Extraterrestrial life

- Space biology
 - Cf. QK760 Effect of space flight on plants
 - Cf. QP82.2.W4 Physiology of weightlessness
 - Cf. RC1150+ Human space physiology
 - Cf. TL943 Planetary quarantine
 - Cf. TL945 Space vehicle sterilization
- 327 General works
- 328 Space radiobiology
- 331 Philosophy of biology
- 332 Bioethics
 - Cf. R724+ Medical ethics
- 333 Social aspects of biology
- 341 Nature of life, vital force, etc.
- 343 Comparison of living and nonliving matter
- 343.4 Geobiology. Biosphere
- Biogeochemistry
 - Cf. QR103 Geomicrobiology
- 343.7 General works
- Biogeochemical cycles
 - Including cycles of individual elements, e.g. carbon cycle, nitrogen cycle, etc.
- 344 General works
- 344.3.A-Z By region or country, A-Z
- 345 General biochemistry of plants and animals
 - For works limited to chemical aspects of biological materials see QD415+
 - For the biochemistry of special substances see QP525+
 - Cf. QK861+ Plant biochemistry
 - Cf. QP501+ Animal biochemistry
 - Cf. QR148 Microbiological chemistry
- 347 Comparison of plants and animals
- 349 Miscellany and curiosa
- 351 Morphology
 - Cf. QK640+ Plant morphology
 - Cf. QL799+ Animal morphology
- Population biology
 - Cf. HB848+ Demography
 - Cf. QH455 Population genetics
 - Cf. QK910 Vegetation dynamics
 - Cf. QL752 Animal populations
- 352 General works
- 352.5 Population viability analysis
- 353 Biological invasions. Introduced organisms
 - Cf. QH91.8.B63 Marine biological invasions

Evolution

For classification by organism, see in subclasses QK or QL

Cf. BL263 Religion and science

Cf. QE701+ Paleontology

- 359 Periodicals, societies, congresses, serial publications
- 360 Collected works (nonserial)
- 360.2 Dictionaries and encyclopedias
- 360.5 Philosophy
- 360.6 Nomenclature, terminology, notation, abbreviations
- 361 History
- 362 Study and teaching. Research
- 363 Early works through 1860
- Works of Darwin
- 365.A1 Collected works. By date
- 365.A2-.Z8 Separate works, A-Z
- The descent of man
- 365.D2 Editions. By date
- 365.D25 Selections. By editor
- 365.D3-.D79 Translations
- Arrange alphabetically by language, then Cutter for translator
- 365.D8 Criticism and reviews
- The expression of the emotions in man and animals
- 365.E2 Editions. By date
- 365.E25 Selections. By editor
- 365.E3-.E79 Translations
- Arrange alphabetically by language, then Cutter for translator
- 365.E8 Criticism and reviews
- 365.O15-.O18 On the origin of species, previous essays
- Essays written before or during the period of the creation of the main work
- On the origin of species
- 365.O2 Editions. By date
- 365.O25 Selections. By editor
- 365.O3-.O79 Translations
- Arrange alphabetically by language, then Cutter for translator, for example:
- 365.O5 German
- 365.O55 Hungarian
- 365.O68 Romanian
- 365.O7 Russian
- 365.O73 Spanish
- 365.O8 Criticism and reviews
- The variation of animals and plants under domestication
- 365.V2 Editions. By date
- 365.V25 Selections. By editor

Evolution

Works of Darwin

Separate works, A-Z

The variation of animals and plants under domestication -

- Continued

365.V3-.V79

Translations

Arrange alphabetically by language, then Cutter for translator

365.V8

Criticism and reviews

365.Z9

Selections from more than one work. By editor

General works, treatises, and textbooks

366

1861-1969

366.2

1970-

367

Popular works

367.1

Juvenile works

367.3

Critical works

Class here works that argue against the theory of evolution

Cf. BL263 Religion and science

367.5

Phylogenetic relationships

For the evolution of particular animals and groups of animals,
see systematic sections, e.g. QL618.2 Evolution of fishes;
QL708.5 Evolution of mammals

(368)

Human evolution

see GN281+

(368.5)

Plant evolution (General)

see QK980

369

Miscellany and curiosa

(371)

Special aspects of the subject as a whole

see QH371.3.A+

371.3.A-Z

Special aspects of the subject as a whole, A-Z

371.3.M37

Mathematical models

371.5

Macroevolution

372

Coevolution

372.5

Homoplasy

373

Convergence

375

Natural selection

376

Group selection

378

Symbiogenesis

380

Speciation

390

Mutation in evolution. Evolutionary genetics

395

Heterochrony

398

Punctuated equilibrium

Variation

401

General works

(405)

Statistical methods

see QH323.5

Evolution

Variation -- Continued

(406)

Plants

see QK983

408

Animals

408.5

Phenetics

409

Clines

411

Experimental study

Hybridization. Hybrid zones

421

General works

(423)

Plants

see QK982

425

Animals

Class particular animals in QL or SF

Cf. SF105+ Animal breeding

Genetics

Class here general and experimental works in genetics

For studies made on the genetic constitution of an organism in order to elucidate its total function, see systematic divisions in QK, QL, or QR. For genetic studies for improvement of breed or variety, see the plant or animal in S

For endocrine genetics see QP187.5

For immunogenetics see QR184+

426

Periodicals, societies, congresses, serial publications

426.5

Collected works (nonserial)

427

Dictionaries and encyclopedias

History

428

General works

428.2.A-Z

By region or country, A-Z

Biography

429

Collective

429.2.A-Z

Individual, A-Z

e.g.

Mendel see QH31.M45

429.5

Directories

General works, treatises, and textbooks

430

General works

431

Human genetics (General)

Cf. HQ750+ Eugenics

Cf. RB155+ Medical genetics

432

Animal genetics (General)

Cf. QH408 Animal variation

Cf. SF105+ Animal breeding

(433)

Plant genetics (General)

see QK981

434

Microbial genetics (General)

Cf. QR73 Variation

Genetics -- Continued

- 436 Pictorial works and atlases
- 437 Popular works
- 437.5 Juvenile works
- 438 Addresses, essays, lectures
- 438.4.A-Z Special aspects of the subject as a whole, A-Z
- 438.4.B55 Biochemical markers. Genetic markers
- 438.4.C45 Chemogenomics
- Genetic markers see QH438.4.B55
- 438.4.M3 Mathematical models
- 438.4.M33 Mathematics
- 438.4.S73 Statistical methods
- 438.5 Heredity and environment. Nature and nurture
- 438.7 Social and moral aspects
- 439 Vocational guidance
- Study and teaching. Research
- 440 General works
- 440.2 Outlines, syllabi
- 440.3 Problems, exercises, examinations
- 440.4 Experiments
- 440.5 Laboratory manuals
- Laboratories
- 440.7 General works
- 440.8.A-Z By region or country, A-Z
- Subarrange each country by Table Q6
- 441 Technique
- 441.2 Data processing
- 441.5 Cytogenetics
- Cf. QH600+ Chromosomes
- Cf. QP620+ Nucleic acids
- Molecular genetics. Genetic engineering
- Cf. QK981.5 Plant genetics
- Cf. RB155+ Medical genetics
- Cf. TP248.6 Genetic engineering applications
- 442 General works
- 442.2 Cloning
- 442.3 Gene targeting
- 442.4 Gene libraries
- 442.6 Transgenic organisms. Transgenic animals
- Recombination mechanisms
- 443 General works
- 444 Segregation. Assortment
- Crossing over
- 445 General works
- Linkage and genetic mapping
- 445.2 General works
- 445.5 Sex linkage

Genetics

Recombination mechanisms

Crossing over -- Continued

445.7

Mosaicism

Genes. Alleles. Genome

Cf. QP98 Blood groups

447

General works

447.2

Dominance and recessiveness

447.5

Conversion

Polymorphisms

447.6

General works

447.63.A-Z

Special polymorphisms, A-Z

447.63.F43

Fibrinogen polymorphisms

447.63.H45

Hemoglobin polymorphisms

447.63.S56

Single nucleotide polymorphisms

Lethal factors see QH463.5

447.8.A-Z

Individual genes and genetic elements, A-Z

447.8.A28

Actin genes

447.8.B46

Beta-glucuronidase genes

447.8.H65

Homeobox genes

Ir genes see QR184.4

447.8.O43

Olfactory receptor genes

Oncogenes see RC268.42

447.8.R47

Reporter genes

447.8.S45

Selfish genetic elements

Recombination in microorganisms

448

General works

448.2

Conjugation

448.3

Transduction

448.4

Transformation

Genetic regulation. Gene expression

450

General works

450.2

Genetic code. Transcription

450.25

RNA editing

450.26

RNA interference

450.3

Gene amplification

450.4

Overexpression

450.5

Translation. Assembly

450.6

Post-translational modification of proteins

450.7

Epistasis

451

Cell fusion. Cell hybridization

452

Cytoplasmic inheritance

452.2

Microsatellites

Mobile genetic elements

Cf. QH462.148 Insertion elements, DNA

452.3

General works

452.5

Episomes

Genetics

Mobile genetic elements -- Continued

452.6

Plasmids

Cf. QR76.6 Bacterial plasmids

452.7

Quantitative genetics

452.8

In situ hybridization

453

Developmental genetics

455

Population genetics

Cf. GN289+ Physical anthropology

Cf. HB848+ Population (Economic theory)

456

Ecological genetics

Endocrine genetics see QP187.5

Evolutionary genetics see QH390

Immunogenetics see QR184+

457

Behavior genetics

Cf. BF341+ Heredity of consciousness

Cf. BF699+ Genetic psychology

Mutations

Cf. QH390 Mutation in evolution

460

General works

461

Genetic mutation. Polyploidy. Aneuploidy

Chromosomal mutation

462.A1

General works, treatises, and textbooks

462.A2-Z

By type, A-Z

462.B7

Breakage

462.D4

Deletion

462.D8

Duplication

462.G46

Gene fusion

462.I48

Insertion elements, DNA

462.I5

Inversion

462.N65

Nondisjunction

462.T7

Translocation

463

Gene mutation

463.2

Nonsense mutation

463.5

Lethal factors

464

Spontaneous mutation

Induced mutation. DNA damage

465.A1

General works, treatises, and textbooks

465.A2-Z

By agent, A-Z

465.C3

Caffeine

465.C5

Chemicals (General)

465.C6

Colchicine

465.D55

DNA. Polynucleotides

465.N4

Neutrons

465.O44

Oil shale extracts

Polynucleotides see QH465.D55

465.R3

Radiation (General)

Genetics

Mutations

Induced mutation. DNA damage

By agent, A-Z -- Continued

465.U4

Ultraviolet rays

465.X2

X-rays

465.5

Site-specific mutagenesis

467

Genetic repair mechanisms

468

Antimutagens

470.A-Z

Experimental organisms, A-Z

Prefer classification by genetic aspect studied

470.A85

Aspergillus

470.C6

Corprinus

470.C64

Corn

470.D7

Drosophila

470.E8

Escherichia

Maize see QH470.C64

470.M52

Mice

470.N4

Neurospora

470.O35

Oenothera

470.S23

Saccharomyces cerevisiae

470.T6

Tobacco mosaic virus

470.T68

Tradescantia

470.T7

Trillium

Reproduction

Cf. QK825+ Plants

Cf. QP251+ Animals

471

General works, treatises, and textbooks

Asexual

Cf. QH442.2 Cloning (Genetic engineering)

475

General works, treatises, and textbooks

477

Fission

479

Budding

Sexual

481

General works, treatises, and textbooks

485

Fertilization

487

Parthenogenesis

489

Alternation of generations

Development. Morphogenesis

Including tissue remodeling

Cf. QK665 Plant embryology

Cf. QL951+ Animal embryology

491

General works

492

Evolutionary developmental biology

499

Regeneration

Cf. QK840 Plant physiology

Cf. QP90.2 Animal physiology

Life

- Cf. QK710+ Plants
- Cf. QP1+ Animals
- 501 General works, treatises, and textbooks
- Biochemistry see QH345
- 504 Biomagnetism
 - Cf. QP82.2.M3 Physiological effects of magnetic fields
 - Cf. QP345 Human magnetic fields
- 505 Biophysics
- 506 Molecular biology
 - Cf. QP187.3.M64 Molecular endocrinology
- Homeostasis see QP90.4
- 507 Information theory in biology
- 508 Biological control systems
- 509 Biological transport
 - Cf. QH615 Osmosis
- 509.5 Bioelectronics
- 510 Bioenergetics
- 510.5 Bioacoustics
- 511 Growth
- 512 Biomineralization
- 513 Biomechanics
 - Cf. QP303 Animal mechanics. Human mechanics
- 513.5 Fluid dynamics
- 514 Movement. Tropisms. Taxes
 - Including attachment mechanisms
- 515 Photobiology
 - Cf. QH641 Bioluminescence
 - Cf. QP517.P45 Photobiochemistry
- 516 Thermobiology
- 517 Electrophysiology
 - Cf. QP341 Animals
 - Cf. QP517.B53 Bioelectrochemistry
- 518 Respiration
- 518.5 Anaerobiosis
- 519 Nutrition
- 521 Metabolism
- 523 Dormancy
- 524 Cryptobiosis. Anhydrobiosis
- 527 Chronobiology. Periodicity. Biorhythms
 - Cf. QP84.6 Physiology
- 528 Degeneration
- 528.5 Longevity
 - Cf. QP85 Animals
- 529 Senescence. Aging

Life -- Continued

530

Death

Cf. QH671 Cell death

Cf. QP87 Animal death

530.5

Biodegradation

Cf. QP517.B5 Animals

Cf. QR135+ Microbial degradation

531

Miscellany and curiosa

Ecology

Class here works on general ecology and general animal ecology.

For works on ecology of individual animals and groups of animals, see the animal

For human ecology see GF1+

For ecology of a particular topographic area see QH101+

For plant ecology see QK900+

Cf. BL65.E36 Ecology and religion

Cf. HX550.E25 Communism and ecology

Cf. QH546 Ecological genetics

540

Periodicals, societies, congresses, serial publications

540.3

Collected works (nonserial)

540.4

Dictionaries and encyclopedias

540.5

Philosophy

540.6

Nomenclature, terminology, notation, abbreviations

540.7

Classification

History

540.8

General works

540.83.A-Z

By region or country, A-Z

Biography see QH26+

541

General works, treatises, and textbooks

541.13

Popular works

541.14

Juvenile works

541.142

Handbooks, tables, formulas, etc.

541.145

Addresses, essays, lectures

541.15.A-Z

Special aspects of the subject as a whole, A-Z

541.15.A9

Autoradiographic techniques

Biodiversity see QH541.15.B56

541.15.B54

Biological assay

541.15.B56

Biological diversity. Biodiversity

For local, see QH84.1+

For physiographic divisions see QH84.8+

Cf. QH75+ Biodiversity conservation

Cf. QH541.15.S64 Species diversity

Cf. QK46.5.D58 Plant diversity

541.15.B84

Buffer zones

541.15.C44

Chemical ecology

541.15.C55

Closed ecological systems

541.15.C67

Corridors

Ecology

Special aspects of the subject as a whole, A-Z -- Continued

- 541.15.D6 Documentation
- 541.15.E19 Ecohydrology
- 541.15.E22 Ecological assessment (Biology)
- 541.15.E24 Ecological heterogeneity
- 541.15.E245 Ecological integrity
- 541.15.E248 Ecological zones
- 541.15.E25 Economic ecology
- 541.15.E26 Ecophysiology
 - Cf. QP82+ Animal ecophysiology
- 541.15.E265 Ecosystem health
- 541.15.E267 Ecosystem services
- 541.15.E27 Ecotones
 - Including land-water ecotones
- 541.15.E45 Electronic data processing
- 541.15.F66 Food chains. Food webs
- 541.15.F73 Fragmented landscapes
- 541.15.G46 Geographic information systems
- 541.15.H34 Habitat suitability index models
- Health, Ecosystem see QH541.15.E265
- Heterogeneity, Ecological see QH541.15.E24
- 541.15.I5 Indicators (Biology)
- Integrity, Ecological see QH541.15.E245
- 541.15.K48 Keystone species
- 541.15.L35 Landscape ecology
 - For local see QH101+
- 541.15.M23 Macroecology
- 541.15.M26 Mapping
- 541.15.M3 Mathematical models
 - Cf. QH541.15.H34 Habitat suitability index models
- 541.15.M34 Mathematics
- 541.15.M63 Molecular ecology
- 541.15.M64 Monitoring
- 541.15.N84 Null models
- 541.15.R34 Radioactive tracers
- 541.15.R4 Remote sensing
- 541.15.R45 Restoration ecology
 - For local see QH101+
 - For specific types of environments see QH541.5.A+
- 541.15.R57 Risk assessment
- 541.15.S5 Simulation methods
- 541.15.S62 Spatial ecology
- 541.15.S64 Species diversity
- 541.15.S68 Stable isotopes
- 541.15.S72 Statistical methods

Ecology

Special aspects of the subject as a whole, A-Z -- Continued

541.15.S95

Surveys

Including general habitat surveys

541.15.T68

Toxicity testing

Zones, Ecological see QH541.15.E248

Communication in ecology

541.18

General works

541.183

Information services

541.185

Computer network resources

Including the Internet

Study and teaching. Research

541.2

General works

541.215

Outlines, syllabi

Special teaching methods and aids

541.22

General works

541.23

Audiovisual aids

541.235.A-Z

Other methods, A-Z

541.235.G34

Games

541.24

Experiments

541.25

Laboratory manuals

By region or country

United States

541.26

General works

541.262.A-Z

By region or state, A-Z

541.264.A-Z

Other regions or countries, A-Z

Ecological laboratories and stations

541.27

General works

541.273.A-Z

By region or country, A-Z

541.28

Technique

541.29

Applied ecology

Cf. QH541.15.M64 Monitoring

Cf. QH541.15.R45 Restoration ecology

541.3

Biological productivity

Cf. QK909.5 Vegetation productivity

541.5.A-Z

By type of environment, A-Z

For local see QH101+

Abysal zone see QH541.5.D35

Antarctica see QH84.2

Aquatic see QH541.5.W3

Arctic regions see QH84.1

541.5.A74

Arid regions

541.5.B63

Bogs

Boreal forests see QH541.5.T3

Brackish waters see QH541.5.E8

Braided rivers see QH541.5.S7

541.5.C24

Canals

Ecology

By type of environment, A-Z -- Continued

- 541.5.C3 Caves
Cerrados see QH541.5.P7
- 541.5.C5 Chaparral
- 541.5.C6 Cities. Urban ecology
- 541.5.C62 Cliffs
- 541.5.C63 Cloud forests
- 541.5.C65 Coasts
- 541.5.C7 Coral reefs and islands. Reefs
- 541.5.C73 Coulees
- 541.5.C95 Cypress swamps
- 541.5.D35 Deep-sea zone. Abyssal zone
Including hydrothermal vents
- 541.5.D4 Deserts
- 541.5.E8 Estuaries. Brackish waters
- 541.5.F56 Fjords
- Floodplains see QH541.5.V3
- 541.5.F6 Forests
Including forest canopy ecology and old growth forest ecology
Cf. QH541.5.C63 Cloud forests
Cf. QH541.5.P47 Permafrost forests
Cf. QH541.5.R27 Rain forests
Cf. QH541.5.T3 Taigas. Boreal forests
Cf. QH541.5.T66 Tropical dry forests
Cf. SD416+ Forest influences
Cf. SD418+ Deforestation
- 541.5.F7 Freshwater
- 541.5.G37 Gardens
- Grasslands see QH541.5.P7
- 541.5.G76 Groundwater
- 541.5.H43 Heathlands
- 541.5.H65 Hot springs
Cf. QH541.5.D35 Hydrothermal vents
Cf. QR107 Microbial ecology
- 541.5.H67 Household ecology
- Intertidal zones see QH541.5.S35
- 541.5.I8 Islands
- 541.5.J8 Jungle
- 541.5.K4 Kelp beds
- 541.5.L27 Lagoons
- 541.5.L3 Lakes
Cf. QH541.5.S22 Salt lakes
- 541.5.L53 Llanos
- 541.5.M27 Mangrove swamps
- Marine ecology see QH541.5.S3
- 541.5.M3 Marshes. Wetlands

Ecology

By type of environment, A-Z -- Continued

- 541.5.M4 Meadows
 541.5.M44 Mediterranean-type
 Cf. QH150 Mediterranean Region
 541.5.M6 Moors
 541.5.M65 Mountains
 541.5.O24 Ocean bottom. Seabed
 541.5.O25 Ocean currents
 Oceans see QH541.5.S3
 541.5.P47 Permafrost forests
 541.5.P6 Polar regions
 541.5.P63 Ponds
 541.5.P7 Prairies. Grasslands. Savannas. Cerrados. Steppes
 Cf. QH541.5.S18 Sagebrush steppes
 541.5.R27 Rain forests
 541.5.R3 Rangelands
 Reefs see QH541.5.C7
 541.5.R4 Reservoirs
 541.5.R52 Riparian areas
 Rivers see QH541.5.S7
 541.5.R62 Roads. Roadsides
 541.5.S18 Sagebrush steppes
 541.5.S22 Salt lakes
 541.5.S24 Salt marshes. Tide marshes
 541.5.S26 Sand dunes
 Savannas see QH541.5.P7
 541.5.S3 Sea. Marine ecology. Ocean ecology
 Cf. QH541.5.D35 Deep-sea zone
 Seabed see QH541.5.O24
 541.5.S35 Seashore. Tidal pools
 Including intertidal zones
 541.5.S55 Shrublands
 541.5.S57 Snow ecology
 541.5.S6 Soil
 541.5.S65 Springs
 Cf. QH541.5.H65 Hot springs
 Steppes see QH541.5.P7
 541.5.S7 Streams. Rivers
 Including braided rivers
 Cf. QH541.5.C73 Coulees
 541.5.S87 Sublittoral
 541.5.S9 Swamps
 Cf. QH541.5.C95 Cypress swamps
 Cf. QH541.5.M27 Mangrove swamps
 541.5.T3 Taigas. Boreal forests
 Cf. QH541.5.P47 Permafrost forests

Ecology

By type of environment, A-Z -- Continued

- 541.5.T45 Temperate forests
Tidal pools see QH541.5.S35
Tide marshes see QH541.5.S24
- 541.5.T66 Tropical dry forests
- 541.5.T7 Tropics
- 541.5.T8 Tundras
- 541.5.U55 Underground ecology
- 541.5.U64 Uplands
Cf. QH541.5.M65 Mountains
Urban ecology see QH541.5.C6
- 541.5.V27 Vacant lots
- 541.5.V3 Valleys. Floodplains
Cf. QH541.5.C73 Coulees
- 541.5.W3 Water. Aquatic ecology
Water, Fresh see QH541.5.F7
Wetlands see QH541.5.M3
- 541.5.X45 Xeric ecology
- (542) Paleocology
see QE720
Geobiology see QH343.4
- 542.5 Biogeomorphology
Bioclimatology. Microclimatology
Cf. QH545.T4 Temperature as a factor in ecology
- 543 General works
- 543.2 Acclimatization
Cf. QK913 Plant acclimatization
- 543.3 Dispersal of organisms by environmental factors
Radioecology. Radiobiology
Cf. QH328 Space radiobiology
Cf. QH545.N8 Nuclear power plants, nuclear reactors
Cf. QH545.N83 Nuclear warfare
Cf. QH652+ Radiation effects on cells
- 543.5.A1 Periodicals. Congresses
- 543.5.A2 Collected works (nonserial)
- 543.5.A3-Z General works, treatises, and textbooks
- 543.58 Aquatic radioecology
General works
- 543.6 Marine radioecology
- 543.8 Brackish water radioecology. Estuarine radioecology
- 543.9 Freshwater radioecology
- 543.95 Ultraviolet radiation
- 544 Phenology

Ecology -- Continued

Influence of special factors in the environment

For works on the technical aspects (e.g., control, measurement, etc.) of pollution in general and of special kinds of pollution see TD172+

Cf. GF51 Human ecology

Cf. QH343.7+ Biogeochemistry

Cf. QK746+ Plants

Cf. QP82+ Animals

Cf. RA565+ Environmental health

545.A1

General works, treatises, and textbooks

545.A15-Z

Special, A-Z

Acid precipitation see QH545.A17

545.A17

Acid rain. Acid precipitation. Acid deposition

545.A2

Acids

545.A23

Actinide elements

545.A25

Agricultural chemicals

545.A3

Air pollution

545.A4

Aldrin

545.A42

All terrain bicycles. Mountain bikes

Including all terrain cycling and mountain biking

545.A43

All terrain vehicles

545.A45

Ammonia

545.A77

Arsenic

Atomic warfare see QH545.N83

545.B45

Benzene

545.B47

Beryllium

545.B55

Biological pest control agents

545.B57

Bird declines

545.B6

Boron

Brines, Oil field see QH545.O47

545.C3

Cadmium

545.C34

Campfires

545.C35

Canals

545.C37

Carbon isotopes

545.C47

Chemical elements

545.C48

Chemical warfare. Chemical weapons

545.C5

Chloroform

545.C52

Cholecalciferol

545.C54

Chromium

545.C545

Cities and towns. Urban growth. Urban sprawl

545.C57

Coal-fired power plants

545.C59

Contaminated sediments

Control of weeds see QH545.W43

545.C6

Copper

545.C64

Coral fisheries

545.C78

Cruise ships

Ecology

Influence of special factors in the environment

Special, A-Z -- Continued

- 545.D35 Dams. Reservoirs
 545.D4 Deicing chemicals
 Desalination plants see QH545.S33
 545.D486 Diazinon
 545.D5 Dichloromethane
 545.D55 Dioxins
 Cf. QH545.T44 Tetrachlorodibenzodioxin
 545.D57 Diquat
 545.D7 Dredging
 545.D713 Dredging (Fisheries)
 545.D72 Dredging spoil
 545.D74 Drilling muds
 545.D75 Drilling platforms
 545.E35 El Niño Current
 545.E38 Electric power plants
 545.E4 Electromagnetic waves
 545.E42 ELF electromagnetic fields
 Energy development see QH545.E53
 545.E53 Energy industries. Energy development
 Erosion, Soil see QH545.S64
 545.E98 Exterior lighting
 545.F47 Fertilizers
 545.F5 Fire. Fire ecology
 545.F52 Fish culture
 545.F53 Fisheries
 545.F55 Flood control
 Flood dams see QH545.D35
 545.F67 Forest management
 545.G37 Gas pipelines
 545.G46 Geothermal power plants
 545.G55 Glyphosate
 Growth, Urban see QH545.C545
 545.H34 Hang gliding
 545.H42 Heavy metals
 545.H47 Herbicides
 545.H49 Hexazinone
 545.H54 Hiking
 545.H92 Hydrocarbons
 Including polycyclic aromatic hydrocarbons
 545.H93 Hydroelectric power plants
 Insecticides see QH545.P4
 545.L35 Lakeshore development
 Land reclamation see QH545.R38
 545.L4 Lead

Ecology

Influence of special factors in the environment

Special, A-Z -- Continued

- 545.L63 Logging
 545.M3 Manganese
 545.M34 Mariculture
 Marine pollution see QH545.W3
 545.M4 Mercury
 545.M45 Metals
 Metals, Heavy see QH545.H42
 545.M52 Mineral industries
 545.M6 Molybdenum
 Mountain bikes see QH545.A42
 Muds, Drilling see QH545.D74
 545.M86 Munitions
 Cf. QH545.C48 Chemical weapons
 545.N3 Natural disasters
 545.N47 Nickel
 545.N5 Nitrogen
 545.N65 Noise
 545.N8 Nuclear power plants. Nuclear reactors
 545.N83 Nuclear warfare
 545.O32 Ocean acidification
 Ocean fertilization see QH545.S43
 545.O33 Ocean outfalls
 Off-road vehicles see QH545.A43
 545.O38 Offshore oil industry
 Cf. QH545.D75 Drilling platforms
 545.O47 Oil field brines
 545.O5 Oil pollution
 Cf. QH91.8.O4 Marine biology
 545.O54 Oil sands extraction plants
 545.O56 Oil shales
 545.O57 Oil well drilling
 545.O72 Organochlorine compounds
 545.O74 Organometallic compounds
 545.O76 Organophosphorus compounds
 545.O87 Outdoor recreation
 545.O94 Ozone
 545.P37 Pentachlorophenol
 545.P39 Persistent pollutants
 545.P4 Pesticides
 Including insecticides
 545.P5 Phosphorus
 Pipelines, Gas see QH545.G37
 Pollution (General) see QH545.A1
 Pollution, Air see QH545.A3

Ecology

Influence of special factors in the environment

Special, A-Z -- Continued

Pollution, Marine see QH545.W3

Pollution, Oil see QH545.O5

Pollution, Thermal see QH545.T48

Pollution, Water see QH545.W3

545.P6

Polychlorinated biphenyls

Polycyclic aromatic hydrocarbons see QH545.H92

Power plants, Coal-fired see QH545.C57

Power plants, Electric see QH545.E38

Power plants, Geothermal see QH545.G46

Power plants, Hydroelectric see QH545.H93

545.P73

Predator control

Radiation see QH543.5+

545.R38

Reclamation of land

545.R42

Recreation areas

545.R44

Reforestation

Reservoirs see QH545.D35

545.R58

River regulation

545.R62

Roads

545.S33

Saline water conversion plants. Desalination plants

545.S35

Saltwater encroachment

545.S37

Sand and gravel industry

545.S4

Scuba diving

545.S43

Seawater fertilization. Ocean fertilization

Sediments, Contaminated see QH545.C59

545.S45

Selenium

545.S49

Sewage

545.S493

Sewage sludge

545.S498

Shore protection

545.S5

Shotgun pellets

545.S55

Silver

545.S56

Skiing

Including snow grooming

Sludge, Sewage see QH545.S493

Snow grooming see QH545.S56

545.S6

Snowmobiles

545.S63

Soil amendments

Including biochar

545.S64

Soil erosion

Sprawl, Urban see QH545.C545

545.S8

Stream channelization

545.S84

Strip mining

545.S9

Sulfur

545.S92

Sulfur compounds

545.T37

Technetium

Ecology

Influence of special factors in the environment

Special, A-Z -- Continued

- 545.T4 Temperature
- 545.T44 Tetrachlorodibenzodioxin
- 545.T45 Textile industry
- 545.T48 Thermal pollution
- 545.T55 Tin compounds
- 545.T7 Trace elements
- 545.T74 Transuranium elements
- 545.T743 Trawls and trawling
- 545.T75 Triclopyr
- 545.T76 Tritium
- 545.T87 Turbidity
- 545.U7 Uranium mining
- Urban growth see QH545.C545
- Urban sprawl see QH545.C545
- 545.V3 Vanadium
- Vehicles, All terrain see QH545.A43
- 545.W26 War
 - Cf. QH545.N83 Nuclear warfare
- 545.W28 Waste disposal
- 545.W3 Water pollution
 - Including marine pollution
 - Cf. QH90.8.T68 Aquatic toxicology
- 545.W33 Water resources development
- Waterpower electric plants see QH545.H93
- 545.W43 Weed control
- 545.X44 Xenobiotics
- 545.Z56 Zinc
- 546 Adaptation
 - Including protective mechanisms, mimicry
 - Cf. QK912+ Plant adaptation
 - Cf. QH543.2 Acclimatization
- 546.3 Competition. Niche
- 547 Parasitism
- Symbiosis
- 548 General works
- 548.3 Mutualism
- 549 Colonies
- 549.5 Animal-plant relationships
- (555) Degeneration
 - see QH528
- (558) Aging
 - see QH529
- (559) Death
 - see QH530

Cytology

Class here general and experimental works in cytology.

For works on the cytology of particular animals written to elucidate the total organism, see the systematic divisions in QL

Cf. QH441.5 Cytogenetics

Cf. QK671 Plant cell anatomy

Cf. QK725 Plant cell physiology

- 573 Periodicals, societies, congresses, serial publications
- 574 Collected works (nonserial)
- 575 Dictionaries and encyclopedias
- History
- 577 General works
- 578.A-Z By region or country, A-Z
- General works, treatises, and textbooks
- 581 Through 1969
- 581.2 1970-
- 581.5 Addresses, essays, lectures
- 582 Pictorial works and atlases
- 582.4 Popular works
- 582.5 Juvenile works
- Study and teaching. Research
- 583 General works
- 583.15 Outlines, syllabi
- 583.2 Laboratory manuals
- Technique
- Cf. TP248.27.A53 Animal cell biotechnology
- 585 General works
- Cell culture
- 585.2 General works
- 585.3 Serum-free culture media
- Cell lines
- 585.4 General works
- 585.45 Continuous cell lines
- 585.457 Lymphoblastoid cell lines
- 585.5.A-Z Special techniques, A-Z
- 585.5.C43 Cell fractionation
- 585.5.C44 Cell separation
- 585.5.C64 Colony-forming units assay
- 585.5.C98 Cytofluorometry
- 585.5.C984 Cytophotometry
- 585.5.D38 Data processing
- 585.5.E43 Electrodes, Ion selective
- 585.5.E46 Electrophoresis
- 585.5.E48 Electroporation
- 585.5.F56 Flow cytometry
- 585.5.I45 Immobilization of cells

Cytology

Technique

Special techniques, A-Z -- Continued

585.5.L37

Lasers

585.5.M52

Micropipette techniques

585.5.M53

Microspectrophotometry

585.5.N82

Nuclear magnetic resonance spectroscopy

(585.5.S45)

Serum-free culture

see QH585.3

585.5.S83

Subcellular fractionation

Cell populations

587

General works

588.A-Z

Individual types of cells, A-Z

588.S83

Stem cells

591

Protoplasm. Cytoplasm

595

Nucleus

596

Nucleolus

597

Centrosome. Centriole

599

Chromatin

Chromosomes

Cf. QH462.A1+ Chromosomal mutation

600

General works

600.15

Artificial chromosomes

600.2

Centromere

600.3

Telomere

600.5

Sex chromosomes

600.6

Giant chromosomes. Lampbrush chromosomes

Cell membranes

601

General works

601.15

Electric properties

601.2

Nuclear membranes

602

Lipid membranes. Bilayer lipid membranes. Liposomes

603.A-Z

Other special, A-Z

603.C4

Cell junctions

603.C43

Cell receptors

603.C63

Coated vesicles

603.C95

Cytoplasmic filaments

603.C96

Cytoskeleton

603.E6

Endoplasmic reticulum

603.E63

Endosomes

603.E93

Extracellular space

603.G6

Golgi apparatus

603.I49

Inclusion bodies

603.I54

Ion channels

603.L9

Lysosomes

603.M35

Microbodies

603.M4

Microsomes

Cytology

Other special, A-Z -- Continued

603.M44

Microtubules

603.M5

Mitochondria

603.N83

Nuclear matrix

603.P47

Peroxisomes

603.R5

Ribosomes

603.S27

Sarcoplasmic reticulum

Control mechanisms. Cell regulation

Cf. QP187.3.C44 Endocrinology

604

General works

604.2

Cell interaction

Cf. QP517.C45 Cellular signal transduction

604.3

Cell compartmentation

604.5

Ion exchange

604.7

Cell growth. Cell proliferation

Cell division

605

General works

605.2

Mitosis

605.3

Meiosis

Cell differentiation

607

General works

Cf. QL963.5 Embryology

607.2.A-Z

By type of cell, A-Z

607.2.C47

Chromatophores. Pigment cells

Pigment cells see QH607.2.C47

608

Aging of cells

Cf. QH671 Pathology and death

609

Cellular repair mechanisms

Physical and chemical properties

Cf. QH506 Molecular biology

611

General works

613

Histochemistry

615

Osmosis

621

Turgescence

622

Adsorption

623

Adhesion

Physiological properties

631

General works

633

Respiration

634

Ingestion. Pinocytosis, etc.

634.2

Exocytosis

634.5

Metabolism

635

Heat production. Energy

641

Light production. Bioluminescence

Cf. QP517.C54 Chemiluminescence

642

Optical properties

Cytology

Physiological properties -- Continued

- 643 Radiation properties
- 645 Electric properties
- 645.5 Mechanical properties
- 646 Contraction
- 647 Motility. Irritability

Effect of physical and chemical agents on cells

- Cf. QK746+ Plant physiology
- Cf. QP82+ Animal physiology

- 650 General works

- 651 Light

- Cf. QH515 Photobiology

Radiation

- For the effect of radiation on specific organs, organisms, etc., see the specific organ, etc., e.g. QP356.5, Nervous system

- Cf. QP82.2.R3 Radiation (Physiology)

- 652.A1 Periodicals, societies, congresses, serial publications

- 652.A2 Collected works (nonserial)

- 652.A3-Z General works, treatises, and textbooks

- 652.4 Ultraviolet radiation

- (652.5) Radiogenetics

- see QH465.R3

- 652.7 Acoustic radiation

- 653 Temperature

- 655 Electricity

- 656 Magnetic fields

- 657 Gravity

- 658 Pressure

- 659 Chemicals

- 671 Pathology and death

- Cf. QH608 Aging of cells

Economic biology

- Cf. S494.5.E25 Agriculture

- Cf. SB107+ Economic botany

- Cf. SF84+ Economic zoology

- 705 General works

- 705.5.A-Z By region or country, A-Z

Botany

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Voyages and expeditions
- 7 Encyclopedias
- 9 Dictionaries
- Communication of information
- 9.2 General works
- 9.3 Information services
- 9.4 Computer network resources
 - Including the Internet
- 10 Terminology, notation, abbreviations
 - Cf. QK96 Nomenclature
- 11 Indexes of plants
- 13 Popular names
- 14.5 Botanical literature
 - Including works on herbals
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z
 - e. g.
 - 31.G8 Gray
 - 31.T7 Torrey
- 35 Directories
- General works and treatises
 - Cf. QK91 Works of Linnaeus (Botany only)
- 41 Early through 1753
- 45 1754-1969
- 45.2 1970-
- 46 Special aspects of the subject as a whole
- 46.5.A-Z Special topics, A-Z
- 46.5.A47 Aerial photography
- 46.5.B66 Botanizers
- Botany for gardeners see QK50
- 46.5.D58 Diversity, Plant (General)
 - Including centers of plant diversity
 - For plant diversity conservation see QK86+
 - For local see QK102+
- 46.5.E4 Electronic data processing
- 46.5.F67 Forensic botany
- 46.5.H85 Human-plant relationships
- 46.5.M3 Mathematical models
- 46.5.S7 Statistical methods

- Special topics, A-Z -- Continued
- 46.5.V44 Vegetation monitoring
For local see QK108+
- 47 Textbooks
- 48 Handbooks, tables, formulas, etc.
- 49 Juvenile works
- 50 Popular works
For plants of individual regions or countries see QK108+
- 50.5 Botany as a profession. Vocational guidance
- Study and teaching. Research
- 51 General works
- 51.2.A-Z By region or country, A-Z
Each region or country subarranged by author
- 52 Outlines, syllabi
- 52.5 Problems, exercises, examinations
- 52.55 Activity programs
- 52.6 Experiments
- 53 Laboratory manuals
Cf. QK673 Anatomy and histology
- Audiovisual aids
- 54 General works
- 55 Charts
- 57 Plant analysis blanks
- 61 Collection and preservation
- 61.4 Plant prints
- 62 Vegetation surveys
- 63 Vegetation mapping
For geographic treatment see QK108+
- Botanical gardens
Class here descriptions, catalogs, and administrative reports only.
Class other serial publications in QK1
Cf. QK479+ Arboretums
- 71 General works
- 73.A-Z By region or country, A-Z
Under each country:
.x *General works*
.x2A-.x2Z *Individual. By name, A-Z*
- Herbariums
Class here descriptions, catalogs, and administrative reports only.
Class other serial publications in QK1
- 75 General works
- 76.A-Z By region or country, A-Z
- 77.A-Z Individual. By name, A-Z
- Laboratories
Class here descriptions, catalogs, and administrative reports only.
Class other serial publications in QK1
- 78 General works

- Laboratories -- Continued
- 78.5.A-Z By region or country, A-Z
Subarrange each country by Table Q6
- Museums. Exhibitions
Class here descriptions, catalogs, and administrative reports only.
Class other serial publications in QK1
- 79 General works
- 79.5.A-Z By region or country, A-Z
Subarrange each country by Table Q5
- 81 Addresses, essays, lectures
- 83 Plant lore
Cf. GR780+ Folklore
- National plants. Official plants
Including state, provincial, etc. plants
- 84.8 General works
By region or country
- 85 United States
- 85.3.A-Z Other regions or countries, A-Z
- 85.5 Wild flowers
Prefer classification by area
- Plant conservation. Rare plants. Endangered plants
Including plant diversity conservation and remnant vegetation
conservation and management
- 86.A1 General works
- 86.A5-Z By region or country, A-Z
- 86.4 Plant reintroduction
- 86.5 Applied ethnobotany
- Relict plants
- 86.7 General works
- 86.73.A-Z By region or country, A-Z
- 87 Miscellany and curiosa
- 89 Pressed plants with text. Bound herbaria
- Classification
- 91 Works of Linnaeus (Botany only)
- 92 Linnaean system (Minor works)
Natural systems
Not to be used for systems developed after Darwin
- 93 General works, treatises, and textbooks
- 94 Minor works
- Systematics and taxonomy. Philosophy and methodology
- 95 General works
- 95.4 Chemotaxonomy
For geographic treatment see QK108+
For systematic treatment see QK494.5.A+
- 95.6 Molecular aspects
- 96 Nomenclature
- 97 Comprehensive systematic works

- 97.5 Identification
For geographic treatment see QK108+
- 98 Pictorial works and atlases (of plants)
Prefer classification by area
Atlases of botanical maps are classed in class G
- Botanical illustration and artists
Cf. QK98 Pictorial works
- History
- 98.15 General works
- 98.16.A-Z By region or country, A-Z
- Biography
- 98.18 Collective
- 98.183.A-Z Individual, A-Z
Including collections of their illustrations
- 98.2 General works
- 98.24 Technique
- 98.3 Catalogs
- 98.4 Useful plants. Permaculture plants
- 98.4.A1 General works, treatises, and textbooks
- 98.4.A5-Z By region or country, A-Z
- Economic botany see SB107+
- Edible plants
Including edible wild plants
Cf. SB175+ Food crops
- 98.5.A1 General works, treatises, and textbooks
- 98.5.A5-Z By region or country, A-Z
- Dye plants (General)
Cf. SB285+ Culture
- 98.7.A1 General works, treatises, and textbooks
- 98.7.A5-Z By region or country, A-Z
- Medical botany (General)
Cf. RS164 Drugs of the vegetable kingdom
Cf. SB293 Culture
- 99.A1 General works, treatises, and textbooks
- 99.A5-Z By region or country, A-Z
- Poisonous plants
Cf. SB617+ Poisonous plants as pests
- 100.A1 General works, treatises, and textbooks
- 100.A5-Z By region or country, A-Z
- Geographical distribution. Phytogeography
- 101 General works, treatises, and textbooks
- Aquatic flora (General)
For geographic treatment see QK108+
Cf. QK564+ Algae
- 102 General works
- 103 Marine flora (General)
- 105 Freshwater flora (General)

Geographical distribution. Phytogeography -- Continued

Topographical divisions

- 108 Special parts of the world
Including British Empire
- America
- 109 General works
- North America
- 110 General works
- 112 Illustrations of North American flora
- United States
- Including East (U.S.)
- 115 General works
- By region
- Northeast
- 117 General works
- 118 Popular handbooks
- 121 New England
- 121.5 Saint John River and Valley (Me. and N.B.)
- Atlantic States. Atlantic Coast
- 122 General works
- 122.3 Appalachian Mountains
- 122.5 Middle Atlantic States
- 122.8 Chesapeake Bay
- 122.85 Potomac River
- 122.9 South Atlantic States
- Southern States
- 124 General works
- Southeast
- Cf. QK122.9 South Atlantic States
- 125 General works
- 125.35 Blue Ridge Mountains
- 125.4 Great Smoky Mountains
- 125.8 Gulf States
- 128 Middle West
- 130 Great Lakes
- West (U.S.)
- 133 General works
- 134 Ozark Mountains
- 135 Great Plains
- 139 Rocky Mountains Region
- 141 Great Basin
- Southwest
- 142 General works
- 142.2 Chihuahuan Desert
- 142.3 Mojave Desert
- 142.4 Sonoran desert
- Sierra Nevada

Geographical distribution. Phytogeography

Topographical divisions

America

North America

United States

By region

West (U.S.)

Sierra Nevada -- Continued

142.7

General works

142.75

Tahoe, Lake, Watershed (Calif. and Nev.)

143

Pacific coast

Northwest

144

General works

144.2

Columbia Basin

By state

145

Alabama

146

Alaska

147

Arizona

148

Arkansas

149

California

150

Colorado

151

Connecticut

152

Delaware

153

District of Columbia

154

Florida

155

Georgia

Hawaii see QK473.H4

156

Idaho

157

Illinois

159

Indiana

160

Iowa

161

Kansas

162

Kentucky

163

Louisiana

164

Maine

165

Maryland

166

Massachusetts

167

Michigan

168

Minnesota

169

Mississippi

170

Missouri

171

Montana

172

Nebraska

173

Nevada

174

New Hampshire

175

New Jersey

176

New Mexico

Geographical distribution. Phytogeography

Topographical divisions

America

North America

United States

By state -- Continued

- 177 New York
- 178 North Carolina
- 179 North Dakota
- 180 Ohio
- 181 Oklahoma
- 182 Oregon
- 183 Pennsylvania
- 184 Rhode Island
- 185 South Carolina
- 186 South Dakota
- 187 Tennessee
- 188 Texas
- 189 Utah
- 190 Vermont
- 191 Virginia
- 192 Washington
- 193 West Virginia
- 194 Wisconsin
- 195 Wyoming. Yellowstone Park

Canada

- 201 General works

- 203.A-Z By region or province, A-Z

For regions that include both the United States
and Canada see QK115+

Latin America

- 205 General works

- 211 Mexico

Central America

- 215 General works

- 216 Belize

- 217 Costa Rica

- 218 Guatemala

- 219 Honduras

- 220 Nicaragua

- 221 Panama

- 222 El Salvador

West Indies. Caribbean area

- 225 General works

- 226 Bahamas

- 227 Cuba

Hispaniola

Geographical distribution. Phytogeography

Topographical divisions

America

Latin America

West Indies. Caribbean area

Hispaniola -- Continued

227.7

General works

227.8

Dominican Republic

228

Haiti

229

Jamaica

230

Puerto Rico

231.A-Z

Other, A-Z

231.A48

Antigua and Barbuda

231.A5

Antilles, Lesser

231.A78

Aruba

231.B3

Barbados

British Virgin Islands see QK231.V53

231.C35

Cayman Islands

231.C87

Curaçao

231.D59

Dominica

Dominican Republic see QK227.8

231.F74

French West Indies

231.G73

Grenada

231.G8

Guadeloupe

231.M35

Martinique

231.N4

Netherlands Antilles

231.S3

Saint Bartholomew

231.S33

Saint Kitts and Nevis

231.S34

Saint Lucia

231.S35

Saint Martin

231.S38

Saint Vincent and the Grenadines

231.T75

Trinidad and Tobago

231.T87

Turks and Caicos Islands

United States Virgin Islands see QK231.V55

Virgin Islands

231.V5

General

231.V53

British Virgin Islands

231.V55

United States Virgin Islands

232

Bermuda

South America

241

General works

261

Argentina

262

Bolivia

263

Brazil

264

Chile

265

Colombia

266

Ecuador

Geographical distribution. Phytogeography

Topographical divisions

America

Latin America

South America -- Continued

Galapagos see QK473.G2

Guiana

266.8

General works

267

Guyana (British Guiana)

268

Suriname (Dutch Guiana)

269

French Guiana

270

Paraguay

271

Peru

272

Uruguay

273

Venezuela

274

Falkland Islands

Atlantic Ocean Islands

275.A1

General works

275.A3-Z

By island or group of islands, A-Z

275.A9

Azores

Bermuda see QK232

Canary Islands see QK422

275.C4

Cabo Verde

Falkland Islands see QK274

275.F37

Faroe Islands

275.M3

Madeira

275.S27

Saint Helena

275.S3

Salvages Islands

275.S68

South Orkney Islands

275.T74

Tristan da Cunha Island

Europe

281

General works

Zone and physiographic divisions

297

Alpine

303.A-Z

Other, A-Z

By region or country

British Isles. Great Britain. England

306

General works

307

Ireland

307.5

Northern Ireland

308

Scotland

309

Wales

310

Austria

311

Hungary

313

France

313.5

Monaco

Geographical distribution. Phytogeography

Topographical divisions

Europe

By region or country -- Continued

- 314 Germany
 - Including East and West Germany
- (314.2) East Germany
 - see QK314
- 314.5 Mediterranean Region
 - Including African coast
- 315 Greece
- 316 Italy
- 316.5 Malta
- 317 Benelux (Low Countries)
- 318 Belgium
- 319 Luxembourg
- 320 Netherlands (Holland)
- 321 Russia. Soviet Union. Russia (Federation)
 - Cf. QK372+ Former Soviet areas of Asia
 - Cf. QK375+ Russia (Federation) in Asia
- 321.5 Belarus
- 321.6 Moldova
- 321.7 Ukraine
- 322 Poland
- 323 Finland
- 324 Scandinavia (General)
 - Including Lapland
- 325 Denmark
- 325.5 Iceland
- 326 Norway
- 327 Sweden
- Iberian Peninsula
 - 328 General works
 - 329 Spain
 - 329.2 Gibraltar
 - 330 Portugal
- 331 Switzerland
- Balkan Peninsula
 - Including Turkey in Europe
 - 332 General works
 - 332.5 Bosnia and Hercegovina
 - 333 Bulgaria
 - 334 Croatia
 - 334.5 Macedonia (Republic)
 - 335 Romania
 - Serbia see QK336
 - 335.5 Slovenia

Geographical distribution. Phytogeography

Topographical divisions

Europe

By region or country

Balkan Peninsula -- Continued

336

Yugoslavia

Including Montenegro and Serbia

339.A-Z

Other European regions, islands, or countries, A-Z

339.A5

Albania

Alps see QK297

339.A54

Andorra

339.B34

Baltic States

339.B47

Bessarabia (Moldova and Ukraine)

339.C35

Carpathian Mountains

339.C45

Central Europe

339.C5

Channel Islands

339.C65

Constance, Lake of

339.C8

Czechoslovakia. Czech Republic

339.E37

Eastern Europe

339.E8

Estonia

339.J85

Jura Mountains (France and Switzerland)

339.L3

Latvia

339.L46

Liechtenstein

339.L5

Lithuania

Mediterranean Region see QK314.5

339.N67

Northern Europe

339.P95

Pyrenees (France and Spain)

339.S55

Slovakia

Yugoslavia see QK336

Asia

341

General works

352

Afghanistan

Arabian Peninsula

353

General works

353.2

Bahrain

353.3

Kuwait

353.4

Oman

353.5

Qatar

353.6

Saudi Arabia

353.7

United Arab Emirates

353.8

Yemen

354

Baluchistan

Cf. QK358.5 Baluchistan in Pakistan

China

355

General works

355.5

Hong Kong

355.6

Macau

Geographical distribution. Phytogeography

Topographical divisions

Asia -- Continued

- 356 Taiwan
- 357 Mongolia
- South Asia. British Indian Empire
- 357.5 General works
- 358 India
- 358.5 Pakistan
Including Baluchistan (Province)
- 358.7 Bangladesh
- 359 Sri Lanka
- 359.5 Nepal
- 359.6 Bhutan
- Southeast Asia
- For Malay Peninsula see QK365
- 360 General works
- 360.5 Burma. Myanmar
- 361 Cambodia. Laos. Vietnam. French Indonesia
- 364 Thailand
- 365 Malaysia
Including Malay Peninsula and Singapore
For Sabah and Sarawak see QK367
- Malay Archipelago
- 365.5 General works
- 366 New Guinea
Including Papua (Indonesia) and Papua New Guinea
- 367 Indonesia
Including Borneo
For Papua see QK366
- Brunei see QK367
- 368 Philippines
- Japan
- For Karafuto see QK375.2
- 369 General works
- 369.3 Ryukyu Islands
Including Okinawa-ken
- 370 Korea
- 371 Iran
- Former Soviet areas of Asia
- Cf. QK377 Caucasus
- 372 General works
- Central Asia
- 374 General works
- 374.3 Kazakhstan
- 374.4 Kyrgyzstan
- 374.5 Tajikistan

Geographical distribution. Phytogeography

Topographical divisions

Asia

Former Soviet areas of Asia

Central Asia -- Continued

374.6

Turkmenistan

374.7

Uzbekistan

Russia (Federation) in Asia. Siberia. Russian Far East

375

General works

375.2

Sakhalin

376

Asia Minor

Including Turkey in Asia

377

Caucasus

Including Armenia, Azerbaijan, Georgia (Republic)

377.3

Cyprus

377.5

Syria

377.7

Lebanon

378

Israel. Palestine

378.5

Jordan

379

Iraq

Bahrain see QK353.2

Kuwait see QK353.3

Oman see QK353.4

Qatar see QK353.5

Saudi Arabia see QK353.6

United Arab Emirates see QK353.7

Yemen see QK353.8

379.5.A-Z

Other Asian regions or countries, A-Z

379.5.E38

East Asia

379.5.H55

Himalaya Mountains

379.5.M53

Middle East

379.5.P47

Persian Gulf

380

Arab countries

Africa

381

General works

By region or country

390

North Africa

391

Tropical Africa

Eastern Africa

Cf. QK401 East Africa

392

General works

392.4

Northeast Africa

393

West Africa

393.5

Central Africa

Cf. QK400 Former British Central Africa

394

Southern Africa

395

Ethiopia. Eritrea

Geographical distribution. Phytogeography

Topographical divisions

Africa

By region or country -- Continued

Former British possessions

- 395.8 General works
- 396 South Africa
- 400 Central Africa (General)
- 401 East Africa (General)
- 402.A-Z Other special, A-Z
- 402.B6 Botswana
- 402.G3 Gambia
- 402.G5 Ghana
- 402.K4 Kenya
- 402.L48 Lesotho
- 402.M28 Malawi
- 402.N34 Mauritius see QK429.M3
- 402.N5 Namibia
- 402.N5 Nigeria
- 402.R5 Rhodesia, Southern. Zimbabwe
- 402.S5 Sierra Leone
- 402.S8 Somalia see QK415
- 402.U2 Swaziland
- 402.U2 Uganda
- 402.Z3 Zambia
- Zimbabwe see QK402.R5
- Mediterranean Region (General) see QK314.5
- 403 Egypt
- 404 Sudan
- 404.5 South Sudan
- Former French possessions
- 405 Algeria
- 406 Tunisia
- 407 Madagascar
- 408 Senegal. Senegambia
- 409 Sahara
- 410.A-Z Other special, A-Z
- 410.B45 Benin
- 410.B85 Burkina Faso
- 410.C4 Cameroon see QK412
- 410.C5 Central African Republic
- 410.C5 Chad
- (410.D3) Dahomey
- see QK410.B45
- 410.D55 Djibouti
- 410.G3 Gabon
- 410.G84 Guinea

Geographical distribution. Phytogeography

Topographical divisions

Africa

By region or country

Former French possessions

Other special, A-Z -- Continued

410.I8

Ivory Coast. Côte d'Ivoire

410.M38

Mauritania

Réunion see QK429.M27

410.T64

Togo

Former German possessions

411

Tanzania

411.5

Rwanda

412

Cameroon

413

Namibia. Southwest Africa

(414)

Eritrea

see QK395

415

Somalia

416

Zaire. Congo (Democratic Republic)

416.4

Congo (Brazzaville)

417

Liberia

418

Morocco

419

Mozambique

420

Angola

420.5

Sao Tome and Principe

421

Guinea-Bissau

422

Canary Islands

423

Western Sahara

423.5

Equatorial Guinea

Including Fernando Po

424

Libya

Indian Ocean islands

428

General works

429.A-Z

By island or group of islands, A-Z

429.A44

Aldabra Islands

429.C4

Christmas Island. Kiritimati

429.C6

Comoros

Madagascar see QK407

429.M24

Maldives

429.M27

Mascarene Islands

Including Réunion

429.M3

Mauritius

429.M34

Mayotte

429.P74

Prince Edward Islands

Réunion see QK429.M27

429.S4

Seychelles

429.S6

Sokotra

Geographical distribution. Phytogeography
Topographical divisions -- Continued

Australia

- 431 General works
445 New South Wales
 Including Australian Capital Territory
Norfolk Island see QK473.N67
451 Northern Territory
453 Queensland
455 South Australia
457 Tasmania
459 Victoria
461 Western Australia
463 New Zealand and adjacent islands
Pacific islands. Oceania
471 General works
473.A-Z By island or group of islands, A-Z
 Cf. QK463 New Zealand and adjacent islands
473.B6 Bonin Island
473.C48 Chuuk (Micronesia)
473.C55 Clipperton Island
473.E17 Easter Island
473.F5 Fiji Islands
473.F74 French Polynesia
473.G2 Galapagos Islands
473.G9 Guam
473.H4 Hawaiian Islands
473.J8 Juan Fernandez (Islands)
473.K55 Kiribati
473.K6 Kommander Islands
473.M3 Makatea
473.M34 Mariana Islands
473.M36 Marshall Islands
473.M5 Micronesia
473.M53 Midway Islands
473.N32 Nauru
473.N4 New Caledonia
New Guinea see QK366
Niihau see QK473.H4
473.N57 Niue (Island)
473.N67 Norfolk Island
Oceania see QK471+
Okinawa Islands see QK369.3
473.P3 Palmyra Island
473.P5 Pitcairn Islands
473.P75 Polynesia
473.P78 Ponape Island

Geographical distribution. Phytogeography

Topographical divisions

Pacific islands. Oceania

By island or group of islands, A-Z -- Continued

473.R27

Raiatea

473.R3

Rarotonga

473.S3

Samoan Islands

473.S6

Society Islands (French Polynesia)

473.T3

Tahiti

473.T6

Tonga

473.T88

Tuvalu

473.V25

Vanuatu

473.W33

Wake Island

Polar regions

473.5

General works

Arctic regions

474

General works

474.2

Greenland

474.3

Svalbard

474.4

Antarctica

474.5

Tropics

Cf. QK391 Tropical Africa

Cf. QK936 Tropical plant ecology

Spermatophyta. Phanerogams

For general works, see general botany

Trees and shrubs

Cf. SD434+ Timber trees

474.8

Periodicals. Societies. Serials

474.83

Collected works (nonserial)

474.85

Congresses

474.87

Dictionaries and encyclopedias

475

General works, treatises, and textbooks

475.6

Pictorial works. Atlases

475.8

Juvenile works

476

Study and teaching. Research

477

Special aspects of the subject as a whole

For historic trees, see D

For folklore of trees see GR785

For national and state trees see QK84.8+

For remarkable trees see SD383+

477.2.A-Z

Special topics, A-Z

477.2.A6

Annual rings

Cf. CC78.3 Archaeology

Cf. QC884.2.D4 Dendroclimatology

Flowering see QK830

Flowers see QK653+

477.2.I4

Identification

Spermatophyta. Phanerogams

Trees and shrubs

Special topics, A-Z -- Continued

Rings see QK477.2.A6

Roots see QK644

Arboretums. Fruticeta

479

General works

480.A-Z

By region or country, A-Z

Under each country:

.x

General works

.x2A-.x2Z

Local or individual. By name, A-Z

(481-493.5)

Local

see QK108+

Systematic divisions

Gymnosperms

Including orders and higher (not A-Z)

494

General works

494.5.A-Z

By family, A-Z

Class species and genera by family

Abietaceae see QK494.5.P66

494.5.A7

Araucariaceae

494.5.C4

Cephalotaxaceae

Coniferae see QK494

Coniferales see QK494

494.5.C975

Cupressaceae

494.5.C995

Cycadaceae

494.5.E5

Ephedraceae

494.5.G48

Ginkgoaceae

494.5.G565

Gnetaceae

494.5.P58

Phyllocladaceae

494.5.P66

Pinaceae

494.5.P73

Podocarpaceae

494.5.S35

Sciadopityaceae (Japanese umbrella pine)

494.5.S8

Stangeriaceae

494.5.T25

Taxaceae

494.5.T3

Taxodiaceae

494.5.W4

Welwitschiaceae

494.5.Z35

Zamiaceae

Angiosperms

495.A1

General works, treatises, and textbooks

For geographical treatment see QK108+

For works limited to anatomy, morphology, and
physiology see QK640+

495.A12

Dicotyledons

Including orders and higher (not A-Z)

495.A14

Monocotyledons

Including orders and higher (not A-Z)

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms -- Continued

- 495.A15-Z By family, A-Z
 Class species and genera by family
- 495.A1655 Acanthaceae
 495.A17 Aceraceae (Maple)
 495.A175 Achariaceae
 495.A176 Achatocarpaceae
 495.A177 Actinidiaceae
 495.A178 Adoxaceae (Moschatel)
 495.A185 Aextoxicaceae
 495.A24 Agapanthaceae
 (495.A26) Agavaceae
 see QK495.A83
- 495.A32 Aizoaceae (Ice plant)
 495.A34 Akaniaceae
 495.A36 Alangiaceae
 495.A4 Alismataceae (Water plantain)
 495.A42 Alliaceae (Onion; garlic; leek)
 Aloaceae see QK495.A42
- 495.A48 Amaranthaceae (Amaranth)
 495.A484 Amaryllidaceae (Amaryllis)
 495.A485 Amborellaceae
 495.A498 Anacardiaceae (Cashew)
 495.A499 Ancistrocladaceae
 495.A6 Annonaceae (Pawpaw)
 (495.A65) Aphyllanthaceae
 see QK495.A83
- Apiaceae see QK495.U48
- 495.A66 Apocynaceae (Dogbane)
 495.A667 Aponogetonaceae
 495.A67 Aquifoliaceae (Holly)
 495.A685 Araceae (Arum)
 495.A6853 Araliaceae (Ginseng)
 Areaceae see QK495.P17
- 495.A688 Aristolochiaceae (Dutchman's pipe)
 495.A815 Asclepiadaceae (Milkweed)
 495.A83 Asparagaceae (Agaves. Asparagus. Hyacinths.
 Yuccas)
- 495.A835 Asphodelaceae
 Asteraceae see QK495.C74
- 495.A9 Austrobaileyaceae
 495.B2 Balanopaceae
 495.B23 Balanophoraceae
 495.B25 Balsaminaceae (Touch-me-not)
 495.B256 Basellaceae (Madeira vine)

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.B33	Bataceae
495.B4	Begoniaceae (Begonia)
495.B45	Berberidaceae (Barberry)
495.B56	Betulaceae (Birch)
495.B62	Bignoniaceae (Catalpa)
495.B63	Bixaceae
(495.B7)	Bombacaceae
	see QK495.M27
495.B73	Boraginaceae (Borage)
	Brassicaceae see QK495.C9
495.B75	Bretschneideraceae
495.B76	Bromeliaceae (Bromelia)
495.B78	Brunelliaceae
495.B785	Bruniaceae
495.B786	Brunoniaceae (Blue-pincushion)
495.B7865	Buddlejaceae
495.B79	Burmanniaceae
495.B8	Burseraceae (Incense tree)
495.B83	Butomaceae (Flowering rush)
495.B85	Buxaceae (Box)
495.B9	Byblidaceae
495.C11	Cactaceae (Cactus)
495.C1153	Caesalpinjiaceae
495.C1155	Callitrichaceae (Water starwort)
495.C15	Calycanthaceae (Spicebush)
495.C17	Calyceraceae
495.C18	Campanulaceae (Bellflower)
	Candolleaceae see QK495.S87
495.C182	Canellaceae
495.C194	Cannabaceae
495.C196	Cannaceae (Canna)
	Capparaceae see QK495.C198
495.C198	Capparidaceae (Spiderflower)
495.C199	Caprifoliaceae (Honeysuckle)
495.C1995	Cardiopteridaceae
495.C1997	Caricaceae (Papaya)
495.C2	Caryocaraceae
495.C24	Caryophyllaceae (Pink)
495.C27	Casuarinaceae (Beefwood)
495.C385	Celastraceae (Staff tree)
495.C39	Centrolepidaceae
495.C395	Cephalotaceae
495.C4	Ceratophyllaceae (Hornwort)

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.C43	Cercidiphyllaceae
495.C46	Chenopodiaceae (Goosefoot)
495.C47	Chloranthaceae
495.C48	Chrysobalanaceae
495.C5	Cistaceae (Rockrose)
495.C55	Clethraceae
	Clusiaceae see QK495.G87
495.C555	Cneoraceae
495.C6	Cochlospermaceae
495.C65	Columelliaceae
495.C7	Combretaceae (White mangrove)
495.C73	Commelinaceae (Spiderwort)
495.C74	Compositae (Sunflower)
495.C76	Connaraceae
495.C78	Convolvulaceae (Morning-glory)
495.C783	Coriariaceae
495.C785	Cornaceae (Dogwood)
495.C786	Corsiaceae
495.C787	Corynocarpaceae
495.C79	Crassulaceae (Stonecrop)
495.C797	Crossosomataceae
495.C9	Cruciferae (Mustard)
495.C93	Crypteroniaceae
495.C96	Cucurbitaceae (Gourd)
495.C965	Cunoniaceae (Lightwood)
495.C967	Cuscutaceae (Dodder)
495.C97	Cyanastraceae
495.C975	Cyclanthaceae (Panama-hat palm)
495.C979	Cymodoceaceae
495.C98	Cynomoriaceae
495.C997	Cyperaceae (Sedge)
495.C9973	Cyrillaceae (Leatherwood)
495.D325	Daphniphyllaceae
495.D33	Datisceae (Durango root)
495.D34	Davidiaceae
495.D35	Davidsoniaceae
495.D4	Degeneriaceae
495.D42	Desfontainiaceae
495.D43	Dialypetalanthaceae
495.D435	Diapensiaceae
495.D44	Dichapetalaceae
495.D45	Didiereaceae
495.D46	Didymelaceae

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.D47	Dilleniaceae
495.D48	Dioncophyllaceae
495.D54	Dioscoreaceae (Yam)
495.D545	Dipentodontaceae
495.D56	Dipsacaceae (Teasel)
495.D564	Dipterocarpaceae
495.D67	Doryanthaceae
495.D76	Droseraceae (Sundew)
495.D9	Duckeodendraceae
495.D95	Dysphaniaceae
495.E25	Ebenaceae (Ebony)
495.E33	Elaeagnaceae
495.E35	Elaeocarpaceae
495.E37	Elatinaceae (Waterwort)
495.E44	Empetraceae (Crowberry)
495.E45	Epacridaceae
495.E64	Eremolepidaceae
495.E68	Ericaceae (Heath)
495.E685	Eriocaulaceae (Pipewort)
(495.E695)	Eriospermaceae see QK495.A83
495.E82	Erythroxylaceae (Coca)
	Escalloniaceae see QK495.S3
	Eucalyptus see QK495.M9
495.E84	Eucommiaceae
495.E85	Eucryphiaceae
495.E9	Euphorbiaceae (Spurge)
495.E95	Eupomatiaceae
495.E96	Eupteleaceae
	Euryalaceae see QK495.T4
	Fabaceae see QK495.L52
495.F14	Fagaceae (Beech; Oak)
495.F55	Flacourtiaceae
495.F58	Flagellariaceae
495.F6	Fouquieriaceae (Ocotillo)
495.F67	Frankeniaceae (Alkali heath)
495.G26	Garryaceae (Silktassel bush)
495.G27	Geissolomataceae
495.G35	Gentianaceae (Gentian)
495.G37	Geosiridaceae
495.G38	Geraniaceae (Geranium)
495.G4	Gesneriaceae (African violet)
495.G56	Globulariaceae

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.G65	Gomortegaceae
495.G655	Goodeniaceae
495.G74	Gramineae (Grass)
495.G745	Griselinaceae
495.G75	Grossulariaceae
495.G76	Grubbiaceae
495.G83	Gunneraceae
495.G87	Guttiferae (St. Johnswort)
495.G877	Gyrostemonaceae
495.H15	Haemodoraceae (Bloodwort)
495.H2	Haloragaceae (Water milfoil)
	Haloragidaceae see QK495.H2
495.H3	Hamamelidaceae (Witch hazel)
495.H35	Heliconiaceae
495.H38	Hemerocallidaceae (Daylily)
	Henriqueziaceae see QK495.R85
495.H42	Hernandiaceae
495.H5	Himantandraceae
495.H65	Hippocastanaceae (Horse chestnut)
495.H66	Hippocrateaceae
495.H67	Hippuridaceae (Mare's tail)
495.H7	Hoplestigmataceae
	Houmiriaceae see QK495.H8
495.H8	Humiriaceae
(495.H83)	Hyacinthaceae
	see QK495.A83
495.H84	Hydnoraceae
(495.H85)	Hydrocaryaceae
	see QK495.T66
495.H86	Hydrocharitaceae (Elodea)
495.H88	Hydrophyllaceae (Waterleaf)
495.H885	Hydrostachyaceae
495.H9	Hypoxidaceae
495.I25	Icacinaceae
495.I4	Illiciaceae (Anise tree)
495.I75	Iridaceae (Iris)
495.J85	Juglandaceae (Walnut)
495.J855	Julianiaceae
495.J87	Juncaceae (Rush)
495.J875	Juncaginaceae (Arrow grass)
495.K7	Krameriaceae
	Labiatae see QK495.L25
495.L152	Lacistemaceae

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.L153	Lactoridaceae
495.L25	Lamiaceae (Mint)
495.L32	Lardizabalaceae
495.L375	Lauraceae (Laurel)
495.L42	Lecythidaceae (Brazil nut)
495.L46	Leeaceae
495.L52	Legumes
	Cf. QK495.C1153 Caesalpiniaceae
	Cf. QK495.M545 Mimosaceae
495.L524	Leitneriaceae (Corkwood)
495.L527	Lemnaceae (Duckweed)
495.L528	Lennoaceae
495.L53	Lentibulariaceae (Bladderwort)
495.L72	Liliaceae (Lily)
495.L73	Limnanthaceae (Meadowfoam)
495.L74	Linaceae (Flax)
495.L76	Lissocarpaceae
495.L78	Loasaceae (Evening star)
495.L785	Loganiaceae (Butterfly bush)
495.L87	Loranthaceae (Mistletoe)
495.L88	Lowiaceae
495.L9	Lythraceae (Crepe myrtle)
495.M24	Magnoliaceae (Magnolia)
495.M245	Malesherbiaceae
495.M26	Malpighiaceae
495.M27	Malvaceae (Mallow)
495.M28	Marantaceae (Arrowroot)
495.M285	Marograviaceae
495.M287	Martyniaceae (Devil's claw)
495.M3	Mayacaceae (Bogmoss)
495.M5	Medusagynaceae
495.M51	Medusandraceae
495.M5135	Melanthiaceae
495.M514	Melastomataceae (Meadow beauty)
495.M52	Meliaceae (Mahogany)
495.M524	Meliantaceae (Honey bush)
495.M537	Menispermaceae (Moonseed)
495.M5375	Menyanthaceae
495.M545	Mimosaceae
495.M55	Misodendraceae
495.M6	Molluginaceae
495.M67	Monimiaceae (Voldo)
495.M73	Moraceae (Mulberry)

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.M74	Moringaceae (Horseradish tree)
495.M78	Musaceae (Banana)
	Musales see QK495.A14
495.M8	Myoporaceae
495.M83	Myricaceae (Wax myrtle)
495.M85	Myristicaceae (Nutmeg)
495.M86	Myrothamnaceae
495.M87	Myrsinaceae
495.M9	Myrtaceae (Myrtle)
495.N3	Naiadaceae
495.N33	Nelumbonaceae
495.N35	Nepenthaceae
495.N37	Neuradaceae
495.N6	Nolanaceae
495.N9	Nyctaginaceae (Four-o'clock)
495.N97	Nymphaeaceae (Waterlily)
495.N975	Nyssaceae (Sour gum)
495.O3	Ochnaceae
495.O35	Olacaceae (Tallow-wood)
495.O44	Oleaceae (Olive)
495.O446	Oliniaceae
495.O46	Onagraceae (Evening-primrose)
495.O62	Opiliaceae
495.O64	Orchidaceae (Orchid)
495.O74	Orobanchaceae (Broomrape)
495.O98	Oxalidaceae (Wood sorrel)
495.P15	Paeoniaceae
495.P17	Palmae (Palm)
495.P175	Pandaceae
495.P18	Pandanaceae (Screw pine)
495.P22	Papaveraceae (Poppy)
	Papaverales see QK495.A12
495.P28	Passifloraceae (Passionflower)
495.P42	Pedaliaceae (Benne)
495.P43	Penaeaceae
495.P44	Pentaphragmataceae
495.P445	Pentaphragmataceae
	Peperomiaceae see QK495.P67
495.P446	Peridiscaceae
495.P45	Philydraceae
495.P453	Phymaceae (Lopseed)
495.P454	Phytolaccaceae (Poke)
495.P5	Picrodendraceae

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.P67	Piperaceae (Pepper)
495.P7	Pittosporaceae
495.P714	Plantaginaceae (Plantain)
495.P72	Platanaceae (Sycamore)
495.P725	Plumbaginaceae (Leadwort)
	Poaceae see QK495.G74
495.P74	Podostemaceae (Riverweed)
495.P77	Polemoniaceae (Phlox)
495.P775	Polygalaceae (Milkwort)
495.P78	Polygonaceae (Buckwheat)
495.P783	Pontederiaceae (Pickerelweed)
495.P8	Portulacaceae
495.P83	Posidoniaceae
	Potaliaceae see QK495.L785
495.P85	Potamogetonaceae (Pondweed)
495.P95	Primulaceae (Primrose)
495.P957	Proteaceae (Silk oak)
495.P9575	Ptaeroxylaceae
495.P958	Punicaceae (Pomegranate)
495.P997	Pyrolaceae
495.Q5	Quiinaceae
495.R15	Rafflesiaceae
	Ranales see QK495.A12
495.R215	Ranunculaceae (Buttercup)
	Ranunculales see QK495.A12
495.R3	Rapateaceae
495.R4	Resedaceae (Mignonette)
495.R42	Restionaceae
495.R45	Rhamnaceae (Coffeeberry)
495.R46	Rhizophoraceae (Mangrove)
	Rhoeadales see QK495.A12
495.R465	Rhoipteleaceae
495.R468	Roridulaceae
495.R78	Rosaceae (Rose)
495.R85	Rubiaceae (Madder)
495.R956	Ruppiaceae
495.R98	Rutaceae (Citrus)
495.S15	Sabiaceae
495.S16	Salicaceae (Willow)
495.S165	Salvadoraceae (Toothbrush tree)
495.S18	Santalaceae (Sandalwood)
495.S19	Sapindaceae (Soapberry)
495.S2	Sapotaceae (Chicle)

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.S225	Sarcolaenaceae
495.S227	Sarcospermataceae
495.S23	Sargentodoxaceae
495.S24	Saraceniaceae (Pitcher plant)
495.S27	Saururaceae (Lizard's-tail)
495.S3	Saxifragaceae (Saxifrage)
495.S35	Scheuchzeriaceae
495.S353	Schisandraceae (Bay-star vine)
	Scitamineae see QK495.A14
495.S43	Scrophulariaceae (Figwort; snapdragon)
495.S45	Scyphostegiaceae
495.S47	Scytopetalaceae
495.S59	Simaroubaceae (Tree of heaven)
495.S62	Siparunaceae
495.S65	Smilacaceae
495.S7	Solanaceae (Nightshade)
495.S74	Sonneratiaceae
495.S745	Sparganiaceae (Bar-reed)
495.S7455	Sphaerosepalaceae
495.S7456	Sphenocleaceae
495.S76	Stachyuraceae
495.S765	Stackhousiaceae
495.S77	Staphyleaceae (Bladdernut)
495.S78	Stemonaceae
495.S8	Sterculiaceae (Cacao)
495.S85	Strasburgeriaceae
495.S87	Stylidiaceae
495.S9	Styracaceae (Silverbell tree)
495.S95	Symplocaceae (Sweetleaf)
495.T3	Taccaceae
495.T35	Tamaricaceae (Tamarisk)
495.T355	Tetracentraceae
495.T4	Theaceae (Tea)
495.T45	Theligonaceae
(495.T455)	Themidaceae see QK495.A83
495.T457	Theophrastaceae (Joewood)
495.T46	Thurniaceae
495.T48	Thymelaeaceae
495.T5	Tiliaceae (Linden)
495.T6	Tovariaceae
495.T66	Trapaceae (Water chestnut)
495.T7	Tremandraceae

Spermatophyta. Phanerogams

Systematic divisions

Angiosperms

By family, A-Z -- Continued

495.T73	Trigoniaceae
495.T735	Trilliaceae
495.T74	Trimeniaceae
495.T745	Triuridaceae
495.T75	Trochodendraceae
495.T77	Tropaeolaceae (Nasturtium)
495.T8	Turneraceae
495.T9	Typhaceae (Cattail)
495.U4	Ulmaceae (Elm)
495.U48	Umbelliferae (Parsley)
495.U7	Urticaceae (Nettle)
495.V3	Valerianaceae
495.V4	Velloziaceae
495.V48	Verbenaceae (Verbena)
495.V5	Violaceae (Violet)
495.V53	Viscaceae
495.V55	Vitaceae (Grape)
495.V6	Vochysiaceae
495.W5	Winteraceae
495.X3	Xanthorrhoeaceae
495.X9	Xyridaceae (Yelloweyed grass)
495.Z3	Zannichelliaceae
495.Z65	Zingiberaceae (Ginger)
495.Z7	Zosteraceae
495.Z9	Zygophyllaceae (Creosote-bush)

Cryptogams

Including Archegoniatae

For bacteria see QR1+

504	Periodicals, societies, congresses, serial publications
505	General works, treatises, and textbooks
505.5	Juvenile works
506	Anatomy, physiology, etc.
507	Classification. Systematic works
	Local
509	North America
	United States
510	General works
511.A-Z	By region or state, A-Z
	Canada
511.2	General works
511.3.A-Z	By region or province, A-Z
	Latin America
511.7	General works

Cryptogams

Local

Latin America -- Continued

Mexico

512

General works

512.2.A-Z

By region or state, A-Z

512.4

Central America (Table Q3)

512.5

West Indies. Caribbean Area (Table Q3)

512.6

South America (Table Q3)

Europe

512.7

General works

513

Great Britain

514.A-Z

Other European regions or countries, A-Z

515

Asia (Table Q3)

516

Africa (Table Q3)

517

Australia

517.5

New Zealand

518

Pacific islands (Table Q3)

519

Arctic regions

519.5

Antarctica

Pteridophyta (Ferns, etc.)

520

Periodicals, societies, congresses, serial publications

521

Anatomy, physiology, etc.

522

General works, treatises, and textbooks

522.5

Juvenile works

523

Classification. Systematic works

523.3

Catalogs and collections

524.A-Z

Systematic divisions, A-Z

524.A25

Actiniopteridaceae

524.A29

Adiantaceae

(524.A65)

Aspidiaceae

see QK524.D79

524.A7

Aspleniaceae

524.A76

Athyriaceae

524.A94

Azollaceae

524.C9

Cyatheaceae

524.D5

Dennstaedtiaceae

524.D55

Dicksoniaceae

524.D79

Dryopteridaceae

524.E6

Equisetaceae

524.H87

Huperziaceae

524.H9

Hymenophyllaceae

524.I8

Isoetaceae

524.L64

Lomariopsidaceae

524.L9

Lycopodiaceae

524.M3

Marattiaceae

524.M4

Marsileaceae

Cryptogams

Pteridophyta (Ferns, etc.)

Systematic divisions, A-Z -- Continued

- 524.O7 Ophioglossaceae
 524.O8 Osmundaceae
 524.P3 Parkeriaceae
 524.P7 Polypodiaceae
 524.P77 Psilotaceae
 Pteridaceae see QK524.A29
 524.S33 Salviniaceae
 524.S35 Schizaeaceae
 524.S46 Selaginellaceae
 524.T54 Thelypteridaceae
- Geographical distribution
 For particular taxa see QK524.A+
- 524.35 General works
 Physiographic divisions (General)
- 524.37 Water
 Land see QK524.35
- Topographic divisions
- America
- 524.4 General works
 North America
- 524.5 General works
 524.7 Great Lakes region
 United States
- 525 General works
 525.5.A-Z By region or state, A-Z
 Canada
- 525.6 General works
 525.7.A-Z By region or province, A-Z
- Latin America
- 525.8 General works
 Mexico
- 525.85 General works
 525.9.A-Z By region or state, A-Z
- 526 Central America (Table Q3)
 526.2 West Indies. Caribbean area (Table Q3)
 526.4 South America (Table Q3)
- Europe
- 526.5 General works
 527 Great Britain
 528.A-Z Other European regions or countries, A-Z
- 529 Asia (Table Q3)
 530 Africa (Table Q3)
 531 Australia
 531.5 New Zealand

- Cryptogams
 - Pteridophyta (Ferns, etc.)
 - Geographical distribution
 - Topographic divisions -- Continued
 - 532 Pacific islands (Table Q3)
 - Bryophyta. Bryology
 - 532.4 Periodicals. Societies. Serials
 - 532.42 Congresses
 - 532.5 Dictionaries and encyclopedias
 - History
 - 532.6 General works
 - 532.65.A-Z By region or country, A-Z
 - Biography
 - 532.7 Collective
 - 532.75.A-Z Individual, A-Z
 - 532.8 Directories
 - 533 General works, treatises, and textbooks
 - 533.3 Juvenile works
 - 533.35 Addresses, essays, lectures
 - Rare and endangered bryophytes
 - 533.4 General works
 - 533.5.A-Z By region or country, A-Z
 - 533.6 Anatomy, physiology, etc.
 - 533.7 Classification. Systematic works
 - 533.74 Catalogs and collections
 - By region or country
 - United States
 - 533.8 General works
 - 533.82.A-Z By region or state, A-Z
 - 533.84.A-Z Other regions or countries, A-Z
- Musci (Mosses)
 - 534 Periodicals, societies, congresses, serial publications
 - 535 Anatomy, physiology, etc.
 - 537 General works, treatises, and textbooks
 - 537.5 Juvenile works
 - 538 Classification. Systematic works
 - 538.4 Catalogs and collections
 - 539.A-Z Systematic divisions, A-Z
 - 539.A6 Amblystegiaceae
 - 539.B68 Brachytheciaceae
 - 539.B7 Bryaceae
 - 539.B97 Buxbaumiaceae
 - 539.D5 Dicranaceae
 - 539.F5 Fissidentaceae
 - 539.F6 Fontinalaceae
 - 539.F98 Funariaceae
 - 539.G7 Grimmiaceae

Cryptogams

Bryophyta. Bryology

Musci (Mosses)

Systematic divisions, A-Z -- Continued

539.H68	Hookeriaceae
539.H95	Hypnobryales
539.H96	Hypopterygiaceae
539.M68	Mniaceae
539.O7	Orthotrichaceae
539.P7	Plagiotheciaceae
539.P78	Polytrichaceae
539.P8	Pottiaceae
539.P93	Pterobryaceae
539.S46	Seligeriaceae
539.S75	Sphagnaceae
539.S76	Splachnaceae
539.S84	Stereophyllaceae
539.T58	Timmiaceae

Local

America

540.4	General works
	North America
540.5	General works
540.7	Great Lakes region
	United States
541	General works
541.5.A-Z	By region or state, A-Z
	Canada
541.6	General works
541.7.A-Z	By region or province, A-Z
541.8	Latin America
	Mexico
541.85	General works
541.9.A-Z	By region or state, A-Z
542	Central America (Table Q3)
542.2	West Indies. Caribbean area (Table Q3)
542.4	South America (Table Q3)
542.45	Atlantic islands (Table Q3)
	Europe
542.5	General works
543	Great Britain
544.A-Z	Other European regions or countries, A-Z
545	Asia (Table Q3)
546	Africa (Table Q3)
547	Australia
547.5	New Zealand
548	Pacific islands (Table Q3)

Cryptogams

Bryophyta. Bryology

Musci (Mosses)

Local -- Continued

549

Arctic regions

549.5

Antarctica

Hepaticae (Liverworts)

551

Anatomy, physiology, etc.

553

General works, treatises, and textbooks

554

Classification. Systematic works

555.A-Z

Systematic divisions, A-Z

555.A3

Adelanthaceae

555.A5

Aneuraceae

(555.A6)

Anthocerotaceae

see QK563.75+

555.B34

Balantiopsaceae

555.B7

Bryopteridaceae

555.D5

Dilaenaceae

555.F6

Fossombroniaceae

555.F9

Frullaniaceae

555.G44

Geocalycaceae

555.G7

Grimaldiaceae

555.H35

Haplomitriaceae

555.J9

Jungermanniaceae

555.L37

Lejeuneaceae

555.L4

Lepidoziaceae

555.L58

Lophocoleaceae

555.L6

Lophoziaceae

555.M2

Marchantiaceae

555.M4

Metzgeriaceae

555.P45

Plagiochilaceae

555.P6

Porellaceae

555.R5

Ricciaceae

555.S34

Scapaniaceae

555.T3

Targioniaceae

Local

America

555.4

General works

North America

555.5

General works

555.7

Great Lakes region

United States

556

General works

556.5.A-Z

By region or state, A-Z

Canada

556.6

General works

556.7.A-Z

By region or province, A-Z

- Cryptogams
 - Bryophyta. Bryology
 - Hepaticae (Liverworts)
 - Local
 - America -- Continued
 - Latin America
 - 556.8 General works
 - Mexico
 - 556.85 General works
 - 556.9.A-Z By region or state, A-Z
 - 557 Central America (Table Q3)
 - 557.2 West Indies. Caribbean area (Table Q3)
 - 557.4 South America (Table Q3)
 - Atlantic Ocean islands
 - 557.45 General works
 - 557.47.A-Z By island or group of islands, A-Z
 - 557.47.F34 Falkland Islands
 - Europe
 - 557.5 General works
 - 558 Great Britain
 - 559.A-Z Other European regions or countries, A-Z
 - 560 Asia (Table Q3)
 - 561 Africa (Table Q3)
 - 562 Australia
 - 562.5 New Zealand
 - 563 Pacific islands (Table Q3)
 - 563.5 Arctic regions
 - 563.7 Antarctica
 - 563.725 Southern hemisphere
 - Hornworts
 - 563.75 Periodicals, societies, congresses, serial publications
 - 563.77 Anatomy, physiology, etc.
 - 563.8 General works, treatises, and textbooks
 - 563.84 Classification. Systematic works
 - 563.85.A-Z By genus, A-Z
 - 563.85.A57 Anthoceros
 - 563.87.A-Z By region or country, A-Z
 - Algae. Algology
 - 564 Periodicals. Societies. Serials
 - 564.3 Congresses
 - 564.5 Collected works (nonserial)
 - 564.6 Dictionaries and encyclopedias
 - History
 - 564.7 General works
 - 564.73 By region or country, A-Z
 - Biography
 - 564.75 Collective

Cryptogams

Algae. Algology

Biography -- Continued

564.77

Individual, A-Z

564.8

Directories

Anatomy, physiology, etc.

Including cytology, morphology

565

General works

565.2

Laboratory cultures and technique

565.5

Genetics

566

General works, treatises, and textbooks

566.3

Popular works

566.5

Juvenile works

567

Classification. Systematic works

567.5

Catalogs and collections

568.A-Z

Special topics, A-Z

568.B55

Blooms

568.E26

Ecology

For systematic treatment see QK569.A+

For geographic treatment see QK570+

568.E85

Evolution

568.M52

Microalgae

For systematic treatment see QK569.A+

For geographic treatment see QK570+

568.T67

Toxic algae

Including toxic marine algae

569.A-Z

Systematic divisions, A-Z

569.A27

Acrochaetiaceae

569.A43

Alariaceae

Audouinellaceae see QK569.A27

569.B15

Bacillariaceae

Bacillariophyceae. Bacillariophyta see QK569.D54

569.B2

Bangiaceae

569.B25

Batrachospermaceae

569.C37

Caulerpaceae

569.C39

Centrales

569.C4

Ceramiaceae

569.C44

Chaetangiaceae

569.C45

Chaetophoraceae

569.C455

Chaetophorales

569.C47

Characeae

569.C48

Characiaceae

569.C483

Charophyta

569.C484

Chattonellaceae

569.C486

Chlamydomonadaceae

569.C49

Chlorellaceae

569.C494

Chlorococcaceae

Cryptogams

Algae. Algology

Systematic divisions, A-Z -- Continued

| | |
|----------|---|
| 569.C496 | Chloroccales |
| 569.C6 | Chlorophyta (Green algae) |
| 569.C617 | Chromophyta |
| 569.C62 | Chrysophyceae |
| 569.C622 | Chrysophytes |
| 569.C624 | Cladophoraceae |
| 569.C63 | Coccolithophoridae |
| 569.C65 | Codiaceae |
| 569.C73 | Coleochaetaceae |
| 569.C8 | Corallinaceae |
| 569.C86 | Crossocarpaceae |
| 569.C95 | Cryptonemiaceae |
| 569.C956 | Cyanidiaceae |
| | Cyanophyta see QR99.6+ |
| 569.C97 | Cystoseiraceae |
| 569.D3 | Dasyaceae |
| 569.D33 | Dasycladaceae |
| 569.D34 | Dasycladales |
| 569.D4 | Delesseriaceae |
| 569.D43 | Desmerestiaceae |
| 569.D46 | Desmidiaceae |
| | Desmidiales see QK569.D46 |
| | Desmidiales (Zygnematales) see QK569.Z82 |
| 569.D54 | Diatoms (Bacillariophyceae. Bacillariophyta.
Diatomophyceae) |
| 569.D55 | Dinamoebales |
| 569.D56 | Dinoflagellates |
| | Dunaliellaceae see QK569.P65 |
| 569.E9 | Euglenaceae |
| 569.E93 | Euglenids |
| 569.F64 | Florideae |
| 569.F73 | Fragilariaceae |
| 569.F95 | Fucaceae |
| 569.G4 | Gelidiaceae |
| 569.G42 | Gelidiales |
| 569.G5 | Gigartinaceae |
| 569.G7 | Gonidomataceae |
| 569.G8 | Gracilariaceae |
| 569.H44 | Hemidiscaceae |
| 569.H46 | Heteropediaceae |
| 569.K3 | Kallymeniaceae |
| 569.L2 | Laminariaceae |
| 569.L34 | Laminariales |
| 569.L5 | Lemaneaceae |

Cryptogams

Algae. Algology

Systematic divisions, A-Z -- Continued

| | |
|-----------|---------------------------------|
| 569.L53 | Lessoniaceae |
| 569.L56 | Lithodermataceae |
| 569.M27 | Mallomonadaceae |
| | Melanophyceae see QK569.P5 |
| 569.M48 | Mesotaeniaceae |
| 569.M87 | Myrionemataceae |
| | Myxophyceae see QR99.6+ |
| 569.N37 | Naviculaceae |
| 569.N43 | Nemaliales |
| 569.N45 | Nemastomataceae |
| | Nostocaceae see QR99.7.N67 |
| 569.O37 | Ochromonadaceae |
| 569.O4 | Oedogoniaceae. Oedogoniales |
| 569.O6 | Oocystaceae |
| | Oscillatoriaceae see QR99.7.O82 |
| 569.P25 | Palmariaceae |
| 569.P33 | Peridinales |
| 569.P35 | Peyssoneliaceae |
| 569.P39 | Pfiesteriaceae |
| 569.P5 | Phaeophyta |
| 569.P54 | Phylloporaceae |
| 569.P65 | Polyblepharidaceae |
| 569.P68 | Porphyridiaceae |
| 569.P9 | Prasiolaceae |
| 569.P93 | Prochloraceae |
| (569.P94) | Protococcaceae |
| | see QK569.C486 |
| 569.P97 | Protosiphonaceae |
| 569.P974 | Prymnesiophyceae |
| 569.P98 | Pseudoanemoniaceae |
| 569.R26 | Raphidophyceae |
| 569.R37 | Rhodomelaceae |
| 569.R4 | Rhodophyta. Rhodophyceae |
| 569.R6 | Rhodymeniaceae |
| 569.S2 | Sargassaceae |
| 569.S32 | Scenedesmaceae |
| | Schizophyceae see QR99.6+ |
| 569.S36 | Scytosiphonaceae |
| 569.S43 | Selenastraceae |
| 569.S53 | Silicoflagellates |
| 569.S56 | Siphonocladaceae |
| 569.S7 | Sphacelariaceae |
| | Stigonemataceae see QR99.7.S85 |
| 569.T47 | Thalassiosiraceae |

Cryptogams

Algae. Algology

Systematic divisions, A-Z -- Continued

- 569.T73 Trentepohliaceae
- 569.U46 Udoteaceae
- 569.U5 Ulotrichaceae
- 569.U55 Ulvaceae
- 569.U6 Ulvales
- 569.V3 Valoniaceae
- 569.V35 Vaucheriaceae
- 569.V9 Volvocaceae
- 569.V93 Volvocales
- 569.Z8 Zygnemataceae
- 569.Z82 Zygnematales

Geographical distribution

For particular taxa see QK569.A+

- 570 General works
- Physiographic divisions (General)
 - 570.2 Marine
 - Cf. SH390+ Fisheries
 - 570.25 Freshwater
- Topographical divisions
 - America
 - 570.4 General works
 - North America
 - 570.5 General works
 - 570.7 Great Lakes region
 - United States
 - 571 General works
 - 571.5.A-Z By region or state, A-Z
 - Canada
 - 571.6 General works
 - 571.7.A-Z By region or province, A-Z
 - Latin America
 - 571.8 General works
 - Mexico
 - 571.85 General works
 - 571.9.A-Z By region or state, A-Z
 - Central America (Table Q3)
 - 572 West Indies. Caribbean area (Table Q3)
 - 572.2 South America (Table Q3)
 - 572.4 Atlantic Ocean and islands
 - 572.48 General works
 - 572.5.A-Z By region, group of islands, or island, A-Z
 - Europe
 - 572.9 General works
 - 573 Great Britain

Cryptogams

Algae. Algology

Geographical distribution

Topographical divisions

Europe -- Continued

574.A-Z Other European regions or countries, A-Z

575 Asia (Table Q3)

576 Africa (Table Q3)

576.5 Indian Ocean

577 Australia

577.5 New Zealand

577.8 Pacific Ocean

578 Pacific Islands (Table Q3)

Polar regions

579 General works

580 Arctic regions

580.5 Antarctica

Lichens. Lichenology

580.7 Periodicals. Societies. Serials

580.74 Congresses

580.75 Collected works (nonserial)

580.77 Dictionaries and encyclopedias

Biography

580.85 Collective

580.86.A-Z Individual, A-Z

581 Anatomy, physiology, etc.

583 General works, treatises, and textbooks

584 Classification. Systematic works

584.2 Catalogs and collections

584.6.A-Z Special topics, A-Z

584.6.E64 Epiphytic lichens

585.A-Z Systematic divisions, A-Z

585.C28 Caliciales

585.C3 Caloplacaceae

585.C6 Cladoniaceae

585.C65 Collemataceae

585.G8 Graphidaceae

585.H48 Heppiaceae

585.L37 Lecanoraceae

585.L4 Lecidiaceae

585.L53 Lichinaceae

585.L63 Lobariaceae

585.M44 Megalosporaceae

585.O63 Opegraphaceae

585.P17 Pannariaceae

585.P2 Parmeliaceae

585.P34 Peltigeraceae

Cryptogams

Lichens. Lichenology

Systematic divisions, A-Z -- Continued

| | |
|---------|------------------|
| 585.P37 | Pertusariaceae |
| 585.P45 | Physciaceae |
| 585.R35 | Ramalinaceae |
| 585.R7 | Roccellaceae |
| 585.S64 | Sphaerophoraceae |
| 585.S78 | Stereocaulaceae |
| 585.S8 | Stictaceae |
| 585.T44 | Teloschistaceae |
| 585.T48 | Thelenellaceae |
| 585.T5 | Thelotremataceae |
| 585.T7 | Trypetheliaceae |
| 585.U5 | Umbilicariaceae |
| 585.V4 | Verrucariaceae |

Local

America

| | |
|------------|--|
| 586.4 | General works |
| | North America |
| 586.5 | General works |
| 586.7 | Great Lakes region |
| | United States |
| 587 | General works |
| 587.5.A-Z | By region or state, A-Z |
| | Canada |
| 587.6 | General works |
| 587.7.A-Z | By region or province, A-Z |
| | Latin America |
| 587.8 | General works |
| | Mexico |
| 587.85 | General works |
| 587.9.A-Z | By region or state, A-Z |
| 588 | Central America (Table Q3) |
| 588.2 | West Indies. Caribbean area (Table Q3) |
| 588.4 | South America (Table Q3) |
| | Atlantic Ocean and islands |
| 588.47 | General works |
| 588.48.A-Z | By region, group of islands or island, A-Z |
| | Europe |
| 588.5 | General works |
| 589 | Great Britain |
| 590.A-Z | Other European regions or countries, A-Z |
| 591 | Asia (Table Q3) |
| 592 | Africa (Table Q3) |
| 593 | Australia |
| 593.5 | New Zealand |

Cryptogams

Lichens. Lichenology

Local -- Continued

- 594 Pacific islands (Table Q3)
 Arctic regions
 597 General works
 597.2 Greenland
 597.3 Spitzbergen
 597.5 Antarctica
 597.7 Tropics

Fungi

- Cf. QR111+ Soil fungi
 Cf. QR245+ Pathogenic fungi
 Cf. TA423.2+ Decay of wood

- 600 Periodicals. Societies. Serials
 600.2 Collected works (nonserial)
 600.3 Congresses
 600.35 Dictionaries and encyclopedias
 Biography
 600.44 Collective
 600.45.A-Z Individual, A-Z
 Study and teaching. Research
 600.47 General works
 600.473.A-Z By region or country, A-Z
 600.476 Experiments
 600.478 Laboratory manuals
 600.48 Collection and preservation
 Museums. Exhibitions
 600.5 General works
 600.53.A-Z By region or country, A-Z
 Under each country:
 .x *General works*
 .x2A-.x2Z *Individual. By name, A-Z*
 Catalogs and collections
 600.7 General works
 600.73.A-Z By region or country, A-Z
 Under each country:
 .x *General works*
 .x2A-.x2Z *Individual. By name, A-Z*
 601 Anatomy, physiology, etc.
 Including cytology, morphology
 602 Genetics, variation, etc.
 603 General works, treatises, and textbooks
 Classification. Systematic works
 603.2 General works
 603.3 Nomenclature
 603.5 Juvenile works

Cryptogams

Fungi -- Continued

- 604 Special aspects of the subject as a whole
- 604.2.A-Z Special topics, A-Z
- 604.2.A52 Anaerobic fungi
- 604.2.A56 Antagonistic fungi
- 604.2.C62 Aquatic fungi see QK617.8+
- 604.2.C62 Colonies
- 604.2.C64 Communities
- 604.2.C66 Conservation
- 604.2.E26 Ecology
- 604.2.E27 Economic aspects
- 604.2.E28 Ecophysiology
- Ectomycorrhizas see QK604.2.M92
- Edible fungi see QK617
- 604.2.E48 Endangered fungi
- Endomycorrhizas see QK604.2.M92
- 604.2.E53 Endophytic fungi
- 604.2.E85 Evolution
- 604.2.H34 Hallucinogenic mushrooms
- 604.2.H95 Hypogeous fungi
- 604.2.I36 Identification
- 604.2.L53 Lichen-forming fungi
- 604.2.L54 Lichenicolous fungi
- 604.2.M64 Molecular biology
- 604.2.M89 Mycoparasitism
- 604.2.M92 Mycorrhizas. Mycorrhizal fungi
Including ectomycorrhizas and endomycorrhizas
Cf. SB106.M83 Plant culture
- 604.2.N45 Nematode-destroying fungi
- Pathogenic fungi see QR245+
- 604.2.P45 Phytopathogenic fungi
Cf. SB733 Control of phytopathogenic fungi and
fungal diseases of plants
- 604.2.P56 Pleomorphic fungi
- Poisonous fungi see QK617
- 604.2.P64 Populations
- 604.2.P73 Predacious fungi
- 604.2.S25 Saprophytic fungi
- Soil fungi see QR111+
- 604.2.S86 Straminipilous fungi
- 604.2.W65 Wood-decaying fungi
Cf. TA423.2+ Deterioration and preservation of wood
- 604.2.W66 Wood-staining fungi
Cf. TA423.4 Deterioration and preservation of wood
- Yeast fungi see QK617.5
- 604.2.Z66 Zoosporic fungi

Cryptogams

Fungi -- Continued

Local

America

- 604.4 General works
North America
- 604.5 General works
- 604.7 Great Lakes region
United States
- 605 General works
- 605.5.A-Z By region or state, A-Z
Canada
- 605.6 General works
- 605.7.A-Z By region or state, A-Z
Latin America
- 605.8 General works
Mexico
- 605.85 General works
- 605.9.A-Z By region or state, A-Z
- 606 Central America (Table Q3)
- 606.2 West Indies. Caribbean area (Table Q3)
- 606.4 South America (Table Q3)
- Europe
- 606.5 General works
- 607 Great Britain
- 608.A-Z Other European regions or countries, A-Z
- 609 Asia (Table Q3)
- 610 Africa (Table Q3)
- 611 Australia
- 611.5 New Zealand
- 612 Pacific islands (Table Q3)
- 615 Arctic regions
- 615.5 Antarctica
- 615.7 Tropics
- 617 Edible and poisonous fungi. Mushrooms (Popular works)
For geographic treatment see QK604.4+
For systematic treatment see QK621+
Cf. SB352.85+ Culture
- 617.5 Yeast fungi (General)
For geographic treatment see QK604.4+
For systematic treatment see QK621+
Cf. QR151+ Microorganisms of fermentation
Cf. TP433 Food processing and manufacture
Cf. TP580+ Brewing
- Aquatic fungi (General)
For geographic treatment see QK604.4+
For systematic treatment see QK621+

Cryptogams

Fungi

Aquatic fungi (General) -- Continued

617.8

General works

618

Marine fungi (General)

618.2

Freshwater fungi (General)

Systematic divisions

Phycomycetes

621.A1

General works, treatises, and textbooks

621.A2-Z

Special, A-Z

621.A42

Albuginaceae

621.B37

Basidiobolus

621.B6

Blastocladiaceae

621.C48

Choanephoraceae

621.C5

Chytridiaceae

621.C63

Coelomomycetaceae

621.E3

Eccrinales

621.E47

Endogonaceae

621.E49

Entomophthoraceae

621.E5

Entophlyctaceae

621.L44

Leptomitales

Molds see QK600+

621.M6

Monoblepharidaceae

621.M64

Mortierellaceae

621.M94

Mucoraceae

621.M96

Mucorales

621.O4

Olpidiaceae

Oomycetes see QK621.A1

621.P45

Peronosporaceae

621.P47

Peronosporales

621.P9

Pythiaceae

621.R5

Rhipidiaceae

621.S24

Saprolegniaceae

621.S25

Saprolegniales

621.S9

Synchytriaceae

621.T45

Thraustochytriaceae

Trichomycetes see QK621.A1

621.W6

Woroniaceae

Ascomycetes

623.A1

General works, treatises, and textbooks

623.A2-Z

Special, A-Z

623.A8

Ascobolaceae

Aspergillus see QK625.M7

623.A93

Asterinales

623.C36

Capnodiaceae

623.C53

Chaetomiaceae

623.C55

Clavicipitaceae

Cryptogams

Fungi

Systematic divisions

Ascomycetes

Special, A-Z -- Continued

| | |
|-----------|---------------------------------------|
| 623.C57 | Clavicipitales |
| 623.D47 | Dermateaceae |
| 623.D55 | Diaporthales |
| | Discomycetes see QK623.A1 |
| 623.D72 | Dothideaceae |
| 623.D74 | Dothideales |
| 623.E4 | Elaphomycetaceae |
| 623.E56 | Endomycetaceae |
| 623.E7 | Erysiphaceae |
| 623.E73 | Erysiphales |
| (623.E85) | Eurotiaceae |
| | see QK623.T75 |
| 623.G55 | Gnomoniaceae |
| 623.G94 | Gymnoascaceae |
| 623.H35 | Helotiaceae |
| 623.H4 | Helvellaceae |
| 623.H76 | Hyaloscyphaceae |
| 623.H86 | Hypocreaceae |
| 623.H87 | Hypomycetaceae |
| 623.H88 | Hysteriaceae |
| 623.L3 | Laboulbeniales |
| 623.L39 | Leotiaceae |
| 623.L6 | Lophiostomaceae |
| 623.M38 | Melanconidaceae |
| 623.M39 | Melanommatales |
| | Meliolaceae see QK623.M4 |
| 623.M4 | Meliolales. Meliolaceae |
| 623.M5 | Microthyriaceae |
| 623.M63 | Monascaceae |
| 623.M65 | Morchellaceae |
| 623.M89 | Mycocaliciales |
| 623.M93 | Mycosphaerellales. Mycosphaerellaceae |
| 623.N43 | Nectriaceae |
| 623.O6 | Ophiostomataceae |
| 623.O75 | Otideaceae |
| | Patellariaceae see QK623.P5 |
| | Penicillium see QK625.M7 |
| 623.P5 | Pezizaceae |
| 623.P53 | Pezizales |
| 623.P6 | Phacidiaceae |
| 623.P63 | Phyllachoraceae |
| 623.P66 | Pleosporaceae |

Cryptogams

Fungi

Systematic divisions

Ascomycetes

Special, A-Z -- Continued

- | | |
|----------|---|
| 623.P68 | Pleosporales |
| 623.P8 | Pseudosphaeriaceae |
| | Pyrenomycetes see QK623.A1 |
| 623.P93 | Pyrenulaceae |
| 623.P95 | Pyronemataceae |
| 623.R45 | Rhytismataceae |
| 623.S23 | Saccharomycetaceae |
| 623.S26 | Sarcoscyphaceae |
| 623.S27 | Sarcosomataceae |
| 623.S3 | Sclerotiniaceae |
| 623.S6 | Sordariaceae |
| 623.S73 | Sphaeriaceae |
| 623.S76 | Sphaeriales |
| 623.T3 | Taphrinaceae |
| 623.T54 | Thermoascaceae |
| 623.T75 | Trichocomaceae |
| 623.T8 | Tuberaceae |
| 623.V35 | Valsaceae |
| 623.V46 | Venturiaceae |
| 623.X9 | Xylariaceae |
| 623.Z64 | Zopfiaceae |
| | Fungi imperfecti (Deuteromycetes) |
| 625.A1 | General works, treatises, and textbooks |
| 625.A2-Z | Special, A-Z |
| 625.A48 | Agonomycetaceae |
| 625.C76 | Cryptococcaceae |
| 625.D4 | Dematiaceae |
| | Discellaceae see QK625.E9 |
| 625.E9 | Excipulaceae |
| | Hyphomycetes see QK625.A1 |
| 625.L4 | Leptostromataceae |
| 625.M4 | Melanconiaceae |
| | Melanconiales see QK625.M4 |
| 625.M7 | Moniliaceae |
| 625.M74 | Moniliales |
| | Mucedinaceae see QK625.M7 |
| 625.M9 | Mycelia Sterilia |
| | Nectrioidaceae see QK625.Z9 |
| | Phyllostictaceae see QK625.S5 |
| | Phyllostictales see QK625.S6 |
| 625.R4 | Rhizoctonia |
| | Sphaerioidaceae see QK625.S5 |

Cryptogams

Fungi

Systematic divisions

Fungi imperfecti (Deuteromycetes)

Special, A-Z -- Continued

- 625.S5 Sphaeropsidaceae
- 625.S6 Sphaeropsidales
- 625.S7 Stilbellaceae
- 625.T8 Tuberculariaceae
- 625.Z9 Zythiaceae

Basidiomycota

- 626 General works, treatises, and textbooks

Teliomycetes

- 626.3 General works, treatises, and textbooks
- 626.5 Septobasidiales. Septobasidiaceae
- 627.A1 Uredinales (Rust fungi)
- 627.A2-Z General works, treatises, and textbooks
- 627.C65 Special, A-Z
- 627.C75 Coleosporiaceae
- 627.M44 Cronartiaceae
- 627.P97 Melampsoraceae
- Pucciniaceae

Ustomycetes

- 627.3 General works, treatises, and textbooks
- 627.4 Cryptobasidiales. Cryptobasidiaceae
- 627.45 Cryptomycocolales. Cryptomycocolacaceae
- Exobasidiales
- 627.5 General works, treatises, and textbooks
- 627.53.A-Z Special, A-Z
- 627.53.E93 Exobasidiaceae
- 627.6 Graphiolales. Graphiolaceae
- 627.7 Platygloeales. Platygloeaceae
- 627.8 Sporidiales. Sporidiobolaceae
- Ustilaginales (Smut fungi)
- 628.A1 General works, treatises, and textbooks
- 628.A2-Z Special, A-Z
- 628.T5 Tilletiaceae
- 628.U8 Ustilaginaceae

Basidiomycetes

- 628.5 General works, treatises, and textbooks
- 629.A-Z Special, A-Z
- 629.A4 Agaricaceae
- 629.A44 Agaricales
- 629.A53 Amanitaceae
- (629.A58) Aphyllophorales
- see QK628.5

Cryptogams

Fungi

Systematic divisions

Basidiomycota

Basidiomycetes

Special, A-Z -- Continued

| | |
|----------|---|
| 629.A74 | Athiliaceae |
| 629.A8 | Auriculales. Auriculariaceae |
| 629.B58 | Bolbitiaceae |
| 629.B6 | Boletaceae |
| 629.B63 | Boletales |
| 629.C3 | Cantharellaceae |
| 629.C33 | Cantharellales |
| 629.C6 | Clavariaceae |
| 629.C783 | Coriolaceae |
| 629.C785 | Corticaceae |
| 629.C787 | Cortinariaceae |
| 629.C83 | Crepidotaceae |
| 629.C95 | Cyphellaceae |
| 629.C97 | Cystofilobasidiales. Cystofilobasidiaceae |
| 629.D2 | Dacrymycetaceae |
| 629.E34 | Echinodontiaceae |
| 629.E56 | Entolomataceae |
| (629.E9) | Exobasidiaceae
see QK627.53.E93 |
| 629.F37 | Favolaschiaceae |
| 629.G18 | Ganodermataceae |
| | Gasteromycetes see QK626+ |
| 629.G4 | Geastraceae |
| | Geastrales see QK629.L92 |
| 629.G6 | Gomphaceae |
| 629.H8 | Hydnaceae |
| 629.H86 | Hygrophoraceae |
| 629.H89 | Hymenochaetaceae |
| 629.H9 | Hymenogastraceae |
| | Hymenomycetes see QK626+ |
| 629.L33 | Lachnocladiaceae |
| 629.L9 | Lycoperdaceae |
| 629.L92 | Lycoperdales |
| 629.M4 | Melanogastraceae |
| 629.N5 | Nidulariales. Nidulariaceae |
| 629.P55 | Peniophoraceae |
| 629.P6 | Phallaceae |
| 629.P63 | Phallales |
| 629.P64 | Phanerochaetaceae |
| 629.P67 | Pluteaceae |
| 629.P7 | Polyporaceae |

Cryptogams

Fungi

Systematic divisions

Basidiomycota

Basidiomycetes

Special, A-Z -- Continued

629.P74
(629.R5)

Poriales

Rhodophyllaceae
see QK629.E56

629.R87
629.S35
(629.S4)

Russulaceae

Sclerodermataceae

Septobasidiaceae
see QK626.5

629.S73
629.S76
629.S77
629.T4
629.T67
629.T7
629.T73
629.T8
(633)

Stereaceae

Strobilomycetaceae

Strophariaceae

Thelephoraceae

Tremellaceae

Tremellales

Tricholomataceae

Tulasnellaceae

Myxobacterales

see QR82.M95

Myxomycetes (Slime molds)

635.A1
635.A2-Z
635.C4
635.D5
635.D53
635.P5
635.P6
635.P65
635.S8
(638)

General works, treatises, and textbooks

Special, A-Z

Ceratiomyxaceae

Dictyosteliaceae

Dictyosteliales

Physaraceae

Plasmodiophoraceae

Plasmodiophorales

Stemonitaceae

Eccrinales

see QK621.E3

Plant anatomy

Including plant morphology

Cf. QK665 Embryology

Cf. QK671 Histology

Cf. QK725 Cytology

640
640.2
640.3
640.4
641
642
642.5

Periodicals. Societies. Serials

Collected works (nonserial)

Congresses

Dictionaries and encyclopedias

General works, treatises, and textbooks

Pictorial works and atlases

Addresses, essays, lectures

Plant anatomy -- Continued

- (643) Individual plants and groups of plants
see QK495+
- Vegetative organs
- 644 Root and modifications. Root tubercles
Bacteriology of root nodules see QR113
- 644.5 Haustoria
- Shoot
Including buds, apexes, etc.
- 645 General works
- Stem
Including bulbs, rhizomes, types of branching
- 646 General works
- 646.7 Tree trunks
- 647 Wood
- 648 Bark
- 649 Leaf and modifications. Stipules
- 650 Appendages
Including trichomas, thorns, spines, tendrils, scales, hairs,
etc.
- 651 Thallus
- Reproductive organs of spermatophytes
- 652 General works
- Flower and inflorescence
- 653 General works
- 654 Receptacle
- Perianth
- 655 General works
- 656 Calyx
- 657 Corolla
- 658 Androecium. Palynology
Including stamens, pollen, etc.
- 659 Gynoecium
Including pistils, ovary, etc.
- Fruit and seed
- 660 General works
- 661 Seed
Cf. QK898.S43 Seed storage compounds
- 662 Reproductive organs of cryptogams
- 663 Alternation of generations
- 664 Teratology
- 665 Embryology
Including embryos, embryosacs, morphogenesis,
spermatogenesis, etc.
- (667) Phylogeny
see QK989
- 669 Nomenclature of color as applied to plant description

Plant anatomy -- Continued

- 671 Histology
- 673 Technique
 - Including microscopy, microtechnique, photomicrography
- (683-707) Individual parts
 - see QK644+
- Plant physiology
- 710 Periodicals, societies, serial publications
- 710.2 Congresses
- General works, treatises, and textbooks
 - 711 Through 1969
 - 711.2 1970-
 - 711.5 Juvenile works
- Study and teaching. Research
 - 714 General works
 - 714.3 Problems, exercises, examinations
 - 714.4 Experiments
 - 714.5 Laboratory manuals
- Instruments and apparatus
 - 715 General works
 - 715.5 Phytotrons and growth chambers
- 717 Plant ecophysiology
 - Including plant resource allocation
 - For geographic treatment see QK108+
 - For systematic treatment see QK494+
 - For physiographic treatment see QK930+
- Physical plant physiology
- 720 Physiology of the vegetative organs (General)
 - For individual organs and groups of organs see QK644+
- 725 Plant cells and tissues
- 728 Molecular biology
- Growth. Development
 - Including pattern formation
 - Cf. QK665 Embryology
- 731 General works
- 740 Germination
- 745 Factors influencing growth
- Chemical agents affecting plants
 - Cf. S631+ Fertilizers
 - Cf. SB742+ Deficiency diseases
 - Cf. SD408 Use of fertilizers
- 746 General works, treatises, and textbooks
 - Including nutritive matter, etc.
- Pollutants
 - Cf. SB744.5+ Plant pathology
- 750 General works

- Plant physiology
 - Physical plant physiology
 - Chemical agents affecting plants
 - Pollutants -- Continued
 - 751 Air pollutants
 - Cf. SB745 Plant pathology
 - Special chemicals, A-Z
 - 753.A-Z Acids
 - 753.A25 Alkaloids
 - 753.A4 Aluminum
 - 753.A45 Arsenic
 - 753.A78 Ascorbic acid see QK753.V58
 - 753.A79 Atrazine
 - 753.A8 Auxin
 - 753.B4 Benzylaminopurine
 - 753.B6 Borax
 - 753.B7 Boron
 - 753.C16 Cadmium
 - 753.C2 Calcium
 - 753.C3 Carbon dioxide
 - 753.C58 Chelates
 - 753.C6 Chlorides
 - 753.C62 Chlorophenoxyacetic acid
 - 753.C67 Cobalt
 - 753.C7 Colchicine
 - 753.C74 Copper
 - 753.C743 Copper chlorides
 - 753.D4 Detergents
 - 753.D5 Dichlorophenoxyacetic acid
 - 753.E7 Essences and essential oils
 - 753.E8 Ethylene
 - 753.F5 Fluorescein
 - 753.F53 Fluorides
 - 753.G45 Galactose
 - 753.G47 Gases
 - 753.G5 Gibberellins. Gibberellic acid
 - 753.H4 Heavy metals
 - 753.H45 Herbicides
 - Cf. SB744.25 Herbicide injuries
 - 753.H93 Hydrogen-ion concentration
 - 753.I5 Indolacetic acid
 - 753.I54 Insecticides
 - 753.I6 Iodine
 - 753.I7 Iron
 - 753.L37 Latex
 - 753.M27 Magnesium
 - 753.M3 Manganese

- Plant physiology
 - Physical plant physiology
 - Chemical agents affecting plants
 - Special chemicals, A-Z -- Continued
 - 753.M47 Metals
 - 753.M56 Minerals
 - 753.M6 Molybdenum
 - 753.N5 Nitrates
 - 753.N54 Nitrogen
 - 753.P37 Pentachlorophenol
 - 753.P4 Petroleum
 - 753.P48 Phosphorus
 - 753.P65 Poisons
 - 753.P67 Polycyclic aromatic hydrocarbons
 - 753.P7 Potassium
 - 753.R33 Radioactive substances
 - Cf. SB746 Plant pathology
 - 753.S3 Salt
 - 753.S32 Salts
 - 753.S5 Silicon
 - 753.S57 Sodium fluoride
 - 753.S6 Sodium sulfate
 - 753.S65 Succinic acid
 - 753.S7 Sugars
 - 753.S8 Sulfates
 - 753.S84 Sulfur
 - 753.S85 Sulfur dioxide
 - 753.T5 Thallium
 - 753.T53 Thiamine
 - 753.T55 Thioureas
 - 753.T7 Trace elements
 - 753.T75 Tritium
 - 753.V58 Vitamin C
 - 753.X45 Xenobiotics
 - 753.Z5 Zinc
 - Physical agents affecting plants (General)
 - Cf. QK870+ Effect of floods, water levels, etc.
- 754 General works
 - 754.4 Atmosphere
 - Climate
 - Cf. QK913 Acclimatization
 - Cf. QK914 Phenology
 - Cf. S600+ Crops and climate
 - Cf. SD390.5+ Forests and climate
 - 754.5 General works
 - Local see QK108+
 - 754.7.A-Z Special topics, A-Z

- Plant physiology
 - Physical plant physiology
 - Physical agents affecting plants (General)
 - Climate
 - Special topics, A-Z -- Continued
 - Drought tolerance see QK754.7.D75
 - 754.7.D75 Droughts. Drought tolerance
 - Cf. SB791 Plant pathology
 - Frost see QK756
 - 754.7.S55 Snow
 - Temperature see QK755+
 - 754.7.W55 Wind
 - Cf. SB793 Plant pathology
 - Temperature
 - 755 General works
 - 755.5 Heat
 - Including heat production in plants
 - 756 Cold. Frost
 - Cf. SB781 Plant pathology
 - 757 Radiation
 - Including light, X-rays, ultraviolet rays, etc.
 - 758 Electricity
 - 759 Mechanical forces
 - 759.5 Volcanic eruptions
 - 760 Space flight
 - 761 Periodicity. Dormancy. Photoperiodism
 - Aging. Senescence
 - 762.5 General works
 - 763 Shedding of leaves, etc. Abscission
 - 769 Miscellaneous special topics
 - Movements. Irritability in plants
 - 771 General works
 - Movements affecting growth
 - 773 Nutation. Torsion
 - Climbing plants, tendrils, etc.
 - 776 Miscellaneous induced movements
 - Including geotropism, phototropism, heliotropism, etc.
 - 791 Movements of variation (not affecting growth)
 - 793 Mechanics
 - Reproduction
 - Cf. QK982 Hybridization
 - 825 General works
 - 826 Asexual reproduction
 - Sexual reproduction
 - 827 General works
 - 828 Fecundation. Fertilization. Sterility

- Plant physiology
 - Physical plant physiology
 - Reproduction
 - Sexual reproduction -- Continued
 - 830 Flowering
 - Cf. SB126.8 Plant culture
 - 840 Reparative processes. Regeneration
 - Cf. SD406 Tree surgery, etc.
 - 844 Luminescence. Light production
 - 845 Electrophysiology of plants
 - Cf. QK758 Effect of electricity on plants
 - Botanical chemistry. Phytochemicals
 - Cf. QK981.3 Biochemical genetics
 - Cf. QR148 Microbiological chemistry
 - 861 General works, treatises, and textbooks
 - Analysis and composition of plants
 - For chemistry of wood see TS932+
 - 865 General works
 - (866) Chemical analysis of individual plants
 - see QK495+
 - Nutrition. Plant food. Assimilation of nitrogen, etc.
 - 867 General works
 - Plant-water relationships
 - Including general works on the effects of water levels and floods on plants
 - Cf. SB785 Plant pathology
 - 870 General works
 - 871 Absorption of water. Osmosis, sap movements, wilting, translocation, etc.
 - 873 Transpiration. Action of stomata, etc.
 - 875 Gases in plants
 - 876 Gases from plants
 - Metabolism
 - 881 General works
 - 882 Photosynthesis. Assimilation and utilization of carbon dioxide
 - 887 Formation of new organic matter
 - 891 Respiration
 - 894 Anaerobiosis
 - 896 Fermentation. Enzymes, diastase, etc.
 - 897 Miscellaneous products
 - 898.A-Z Special plant constituents, A-Z
 - 898.A15 Abscisic acid
 - 898.A156 Acetolactate synthase
 - 898.A16 Acetylenes
 - 898.A18 Adenosine triphosphatase
 - 898.A2 Albumins

Plant physiology

Botanical chemistry. Phytochemicals

Nutrition. Plant food. Assimilation of nitrogen, etc.

Special plant constituents, A-Z -- Continued

| | |
|----------|--------------------------------------|
| 898.A3 | Algin |
| 898.A4 | Alkaloids |
| | Cf. QD421+ Chemistry |
| 898.A43 | Allelochemicals. Allelopathic agents |
| 898.A5 | Amino acids |
| 898.A52 | Aminoacyl-tRNA |
| 898.A53 | Amyloid |
| 898.A55 | Anthocyanins |
| 898.A57 | Antioxidants |
| 898.A59 | Antiviral proteins |
| 898.A67 | Arabinoglactan |
| 898.A7 | Ascorbic acid |
| 898.A74 | Asparagine |
| 898.A8 | Auxin |
| 898.B54 | Bioactive compounds |
| 898.B56 | Biogenic amines |
| 898.B85 | Brassinosteroids |
| 898.C2 | Calcium |
| 898.C3 | Carbohydrates |
| 898.C34 | Carotenoids |
| 898.C35 | Carotin |
| 898.C42 | Cellulose |
| 898.C44 | Chlorides |
| 898.C45 | Chlorine |
| 898.C5 | Chlorophyll |
| 898.C52 | Chloroplast DNA |
| 898.C6 | Cobalt |
| 898.C94 | Cytokinins |
| 898.D44 | Deoxyribonucleic acid. DNA |
| 898.D46 | Depsides |
| 898.D54 | Dimethylpropiothetin |
| | DNA see QK898.D44 |
| 898.E58 | Enzymes |
| 898.E75 | Essences and essential oils |
| 898.E8 | Ethylene |
| 898.F3 | Fatty acids |
| 898.F5 | Flavonoids |
| 898.F53 | Flavonols |
| 898.G45 | Gibberellins |
| 898.G475 | Glucose |
| 898.G48 | Glutamate dehydrogenase |
| 898.G485 | Glutathione |
| 898.G49 | Gluten |

Plant physiology

Botanical chemistry. Phytochemicals

Nutrition. Plant food. Assimilation of nitrogen, etc.

Special plant constituents, A-Z -- Continued

| | |
|----------|----------------------|
| 898.G497 | Glycoproteins |
| 898.G5 | Glycosides |
| 898.H45 | Hemicellulose |
| 898.H67 | Hormones |
| 898.I53 | Indole alkaloids |
| 898.I55 | Inositol |
| 898.I7 | Iron |
| 898.I76 | Isopentenoids |
| 898.I78 | Isoquinoline |
| 898.I8 | Isozymes |
| 898.L23 | Laccase |
| 898.L3 | Latex |
| 898.L42 | Lectins |
| 898.L5 | Lignin |
| 898.L54 | Limonoids |
| 898.L56 | Lipids |
| 898.L9 | Lycopene |
| 898.M25 | Malate dehydrogenase |
| 898.M28 | Malonic acid |
| 898.M3 | Manganese |
| 898.M8 | Mucilage |
| 898.N5 | Nicotinic acid |
| 898.N57 | Nitrates |
| 898.N58 | Nitric oxide |
| 898.N6 | Nitrogen |
| 898.N8 | Nucleic acids |
| 898.N83 | Nucleotides |
| 898.O4 | Olive oil |
| 898.O88 | Oxalates |
| 898.O9 | Oxidases |
| 898.O92 | Oxygen |
| 898.P2 | Patellaric acid |
| 898.P3 | Patulin |
| 898.P4 | Pectin |
| 898.P47 | Peroxidase |
| 898.P57 | Phenols |
| 898.P59 | Phosphoproteins |
| 898.P6 | Phosphorus |
| 898.P64 | Phycobiliproteins |
| 898.P65 | Phytin |
| 898.P66 | Phytoalexins |
| 898.P67 | Phytochrome |
| 898.P677 | Phytoliths |

- Plant physiology
 Botanical chemistry. Phytochemicals
 Nutrition. Plant food. Assimilation of nitrogen, etc.
 Special plant constituents, A-Z -- Continued
- 898.P68 Phytomelanes
 898.P7 Pigments
 898.P73 Plastocyanin
 898.P75 Plumieride
 898.P756 Polyamines
 898.P76 Polymers
 898.P764 Polyphenols
 898.P77 Polysaccharides
 898.P79 Protein kinases
 898.P8 Proteins
 898.P82 Proteolytic enzymes
 898.P84 Protochlorophyllide
 898.P97 Pyrrolizidines
 898.S43 Seed storage compounds
 For works limited to special compounds see the
 compound, e.g., Proteins see QK898.P8
- 898.S45 Selenium
 898.S48 Sesquiterpene lactones
 898.S49 Sesquiterpenes
 898.S55 Shikimic acid
 898.S64 Solanine
 898.S67 Starch
 898.S7 Steroids
 898.S78 Sugar
 898.S8 Sulfur
 898.T2 Tannins
 898.T4 Terpenes
 898.U68 Uric acid
 898.U7 Uronic acids
 898.V5 Vitamins
- 899 Miscellaneous special topics
- Plant ecology
 Cf. QH540+ General ecology
- 900 Periodicals. Societies. Serials
 900.2 Congresses
 900.4 Dictionaries
 History
 900.7 General works
 900.73.A-Z By region or country, A-Z
 901 General works, treatises, and textbooks
 (903) Ecological discussion of areas
 see QK108+

- Plant ecology -- Continued
- (905) Plant ecophysiology
see QK717
- 909 Illustrations of floral ecology of regions
- 909.5 Vegetation productivity. Primary productivity
Cf. QK564+ Algae
Cf. QK882 Photosynthesis
Cf. QK933+ Phytoplankton
Cf. QK938.F6 Forest ecology
- 910 Vegetation dynamics
- 911 Vegetative interrelation. Plant communities. Phytosociology
- Plant adaptation
- 912 General works
- 913 Acclimatization
Cf. QK754.5+ Vegetation and climate
- 914 Phenology
- Nutritive adaptation
- 915 General works
- 916 Aquatics, ice plants, dew plants
- 917 Insectivorous plants. Carnivorous plants
- 918 Parasites, saprophytes, symbionts
- Protective adaptations
- 921 General works
- 922 Epiphytes, xerophytes, salt-marsh and desert plants
Cf. QK938.D4 Desert flora
Cf. QK938.S27 Salt marsh flora
- 923 Spines, secretion, raphides
- 924 Myrmecophilism, acarophilism
- 924.5 Plant canopies
- Reproductive interrelation
- 925 General works
- 926 Pollination
- 929 Dissemination
- Physiographic regions (General)
For geographic treatment see QK108+
- Water
- 930 General works
- 931 Marine
Cf. QK938.C6 Coasts
- Freshwater
- 932 General works
- 932.7 Streams
Cf. QK105 Flora
- Phytoplankton
- 933 General works
- 934 Marine
- 935 Freshwater

Plant ecology

Physiographic regions (General) -- Continued

Land

General

see QK101+ and QK901+

- 936 Tropics
 937 Mountains
 938.A-Z Other special, A-Z
 Bogs see QK938.M3
 Burned land
 Caves
 Chalk see QK938.L5
 Cloud forest plants
 Coasts
 Deserts
 Dunes
 938.F6 Forests
 Cf. QK938.C55 Cloud forest plants
 Cf. QK938.M27 Mangrove forests and swamps
 Cf. QK938.R34 Rain forests
 Cf. QK938.T34 Taigas
 Grasslands see QK938.P7
 Heathlands
 938.H4 Hedges. Hegerows
 938.H44
 938.I84 Islands
 938.L5 Limestone, chalk, etc.
 938.M27 Mangrove forests and swamps
 938.M3 Marshes, bogs, swamps, etc.
 Cf. QK938.M27 Mangrove forests and swamps
 Cf. QK938.P42 Peat bogs
 938.M4 Meadows, pastures
 938.M45 Mediterranean-type plants
 Cf. QK314.5 Mediterranean Region
 938.M6 Moors
 938.P3 Paramos
 Pastures see QK938.M4; QK938.M45
 938.P42 Peatlands. Peat bogs
 938.P7 Prairies. Grasslands. Velds
 938.R34 Rain forests
 938.R6 Rocks
 938.S27 Salt marshes. Tide marshes
 Cf. QK922 Halophytes
 Cf. QK938.M27 Margrove forests and swamps
 938.S3 Sand barrens
 938.S36 Seashore
 938.S4 Semiarid regions
 938.S45 Serpentine

Plant ecology

Physiographic regions (General)

Land

Other special, A-Z -- Continued

938.S57

Shrublands

Swamps see QK938.M3

938.T34

Taigas

Tide marshes see QK938.S27

938.T8

Tundras

Velds see QK938.P7

938.V5

Vineyards

(940-977.5)

Topographical divisions

see QK108+

Evolution of plants (General)

For works limited to specific divisions, classes, etc. see
QK494+

For works limited to special crops see SB177.A+

980

General works

Genetics

981

General works

981.3

Biochemical genetics

981.35

Cytogenetics

981.4

Molecular genetics

981.45

Genome mapping

981.5

Genetic engineering

981.7

Germplasm resources

Cf. SB123.3+ Crop germplasm resources

982

Hybridization

983

Variation

985

Selection, natural and artificial

For works limited to plant-breeding see SB123+

987

Degeneration

989

Phylogeny

Zoology

For animal ecology see QH540+

For animal culture see SF1+

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Voyages and expeditions
- 7 Encyclopedias
- 9 Dictionaries
- Communication of information
- 9.2 General works
- 9.3 Information services
- 9.4 Computer network resources
 - Including the Internet
- Classification. Nomenclature see QL351+
- 10 Terminology, notation, abbreviations
 - Cf. QL353+ Nomenclature
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z
 - e.g.
 - 31.A9 Audubon
 - 31.C9 Cuvier
- 35 Directories
- General works and treatises
- 41 Early through 1759
- 45 1760-1969
- 45.2 1970-
- 46 Pictorial works and atlases
- 46.5 Zoological illustrating
- Textbooks
- Advanced
- 47 Through 1969
- 47.2 1970-
 - Elementary
 - 48 Through 1969
 - 48.2 1970-
- 49 Juvenile works
 - Cf. SF75.5 Domestic animals
- 50 Popular works
 - For stories and anecdotes see QL791+
- 50.5 Zoology as a profession. Vocational guidance
- Study and teaching. Research
- 51 General works

- Study and teaching. Research -- Continued
- 51.2.A-Z By region or country, A-Z
Each region or country subarranged by author
- 51.5 Problems, exercises, examinations
- 52 Outlines, syllabi
- 52.55 Activity programs
- 52.6 Experiments
- 53 Laboratory manuals
Cf. QL812+ Anatomy
Cf. QP44 Physiology
- 55 Laboratory animals
Class here general works only. Prefer systematic divisions for particular groups of animals
Cf. SF405.5+ Breeding and care
Cf. SF996.5 Diseases
- 57 Audiovisual aids
- 58 Other special
- 59 Wildlife attracting
Including gardening to attract wildlife
- 60 Wildlife watching
Including wildlife viewing sites
- 60.4 Radio tracking
- 60.5 Wildlife marking
Cf. QL645.6+ Amphibians and reptiles
Cf. QL677.5 Birds
- 60.7 Age determination
- Collection and preservation
Class here general works only. For works on collecting particular animals or the fauna of particular places, see systematic or geographical subdivisions in QL
Cf. QL465 Insects
Cf. QL677.7 Birds
- 61 General works, treatises, and textbooks
- Collecting techniques
- 62 General works
- 62.5 Immobilization
Cf. SF760.A55 Veterinary medicine
- 63 Taxidermy
Cf. QL618.6 Fish mounting
- 64 Models and modelmaking
- 67 Preservation techniques
- Laboratories, institutes, university departments, etc.
Class here descriptions, catalogs, annual reports, etc.
For serial research publications see QL1
- 69.A1 General works
- 69.A3-Z By region or country, A-Z
Subarrange each country by Table Q6

- Museums. Exhibitions
 Class here descriptions, catalogs, annual reports, etc.
 For serial research publications see QL1
- 71.A1 General works
 71.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 72 Commercial lists
- Menageries
- 73.A1 General works
 73.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
- Zoos. Zoological gardens
- 76 General works
 76.5.A-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 77.5 Zoo animals
 Cf. SF408+ Culture and care
 Cf. SF995.84+ Veterinary medicine
- Public aquariums
 Cf. SF456+ Home aquariums
- 78 General and freshwater aquariums
 78.5 Marine aquariums. Saltwater aquariums
 79.A-Z By region or country, A-Z
 Subarrange each country by Table Q5
- 81 Addresses, essays, lectures
- Wildlife conservation. Rare animals. Endangered species.
 Wildlife refuges. Wildlife habitat improvement
 Including rare and endangered vertebrates
 For conservation of particular animals and groups of animals, see
 QL366+
 For habitat improvement of game animals see SK356.W54
 Cf. HE5620.W54 Wildlife and traffic safety
 Cf. QL676.5+ Bird refuges
 Cf. SK351+ Wildlife management. Game protection
 Cf. SK590+ Wild animal trade
- 81.5 Periodicals. Societies. Congresses
 81.7 History (General)
 For history of a particular place see QL84+
- 82 General works
 83 Juvenile works
 83.15 Study and teaching. Research
 83.17 Wildlife monitoring
 For local see QL101+
- 83.2 Wildlife rescue
 Including wildlife relocation and replacement, rescue of injured
 or orphaned animals, etc.
 Cf. SF996.45 Wildlife rehabilitation

- Wildlife conservation. Rare animals. Endangered species.
 Wildlife refuges. Wildlife habitat improvement -- Continued
- 83.4 Wildlife reintroduction
 By region or country
 North America
- 84 General works
 United States
- 84.2 General works
 84.22.A-Z By region or state, A-Z
 Canada
- 84.24 General works
 84.26.A-Z By region or province, A-Z
 84.28 Mexico
 Central America
- 84.285.A1 General works
 84.285.A3-Z By region, country, or island, A-Z
 West Indies
- 84.29.A1 General works
 84.29.A3-Z By region, country, or island, A-Z
 South America
- 84.3.A1 General works
 84.3.A3-Z By region, country, or island, A-Z
 Europe
- 84.4.A1 General works
 84.4.A3-Z By region, country, or island, A-Z
 Asia
- 84.5.A1 General works
 84.5.A3-Z By region, country, or island, A-Z
 Africa
- 84.6.A1 General works
 84.6.A3-Z By region, country, or island, A-Z
 Australia and Indo-Pacific islands
- 84.7.A1 Australia
 84.7.A3-Z Other. By region, country, or island, A-Z
- 85 Animals and civilization. Human-animal relationships
- 86 Animal introduction. Introduced animals
 For local see QL101+
 Cf. QL606 Introduced vertebrates
 Cf. SB990+ Pest introduction
 Cf. SF87 Acclimatization of livestock
- 87 Animals in the ancient world
 Bible zoology see BS663
- 87.5 Dead animals

- Extinct animals
 Including extinction
 Cf. QL81.5+ Endangered animals
 Cf. QL676.8 Extinct birds
 Cf. QL707 Extinct mammals
- 88 General works
 88.15.A-Z By region or country, A-Z
- 88.3 Cryptozoology
 General works
- 88.5 Living fossils
 Alleged animals
 Cf. BF1484 Animal ghosts
 Cf. GR705+ Animal folklore
 Cf. GR825+ Mythical animals
 Cf. GR910 Mermaids. Sea monsters
- 89 General works
 89.2.A-Z By animal, A-Z
 Abominable snowman see QL89.2.Y4
 89.2.B43 Beast of Exmoor
 89.2.C37 Carcharocles megalodon
 Cf. QE852.L35 Paleozoology
 89.2.C53 Champ (Monster)
 89.2.C57 Chupacabras
 89.2.D68 Dover demon
 89.2.K73 Kraken
 89.2.L6 Loch Ness monsters
 89.2.M58 Mokele-mbembe
 89.2.M6 Morag
 89.2.M68 Mothman
 89.2.O34 Ogopogo
 89.2.R67 Ropen
 89.2.S2 Sasquatch
 89.2.S4 Sea serpents
 89.2.S44 Serpents
 89.2.Y4 Yeti
- Migratory animals see QL754
- (95) Noxious animals
 see SF84+
- 99 Medical zoology
 Cf. RA639+ Transmission of disease
- Dangerous animals. Poisonous animals
 Cf. QL468.8 Insects
 Cf. QL618.7 Fishes
 Cf. QP631+ Toxins, venom, poisons
- 100 General works
 100.5 Animal attacks
 Geographical distribution

Geographical distribution -- Continued

- 101 General works, treatises, and textbooks
- Polar regions
- 104 General works
- 105 Arctic regions
 - Including Greenland
 - Cf. QL126 Arctic Ocean
- 106 Antarctica
 - Cf. QL126.5 Antarctic Ocean
- 107 Temperate regions
- 109 Tropics
- Physiographic divisions
- Soil
 - Cf. QR111+ Soil microorganisms
- 110 General works
- 110.5 Compost
- Land
- 111 Islands
 - Cf. QL125 Coral reefs
- 112 Forests
- 113 Mountains
 - Cf. QL254 Alps
- 113.77 Valleys. Floodplains
- Wetlands
- 113.8 General works
- 114 Marshes. Tidemarshes
- 114.5 Swamps
- 115 Plains
- Grasslands. Prairies
- 115.3 General works
- 115.5 Meadows. Fields
- 116 Deserts
- 117 Caves
- 118 Subterranean waters
 - Including groundwater
- 119 Gardens
- Water
- 120 General works, treatises, and textbooks
- 120.5 Suspension feeders
- Ocean
- 121 General works
- 122 Popular works
- 122.2 Juvenile works
- 123 Zooplankton
- (124) Animal ecology of the ocean
 - see QH541.5.S3
- 125 Coral reefs

Geographical distribution

Physiographic divisions

Water

Ocean -- Continued

- 125.5 Deep-sea
- 125.6 Hydrothermal vents
- 126 Arctic Ocean
- 126.5 Antarctic Ocean
- Atlantic Ocean
 - 127 General works
 - 128 North Atlantic Ocean. North Sea, etc.
 - 131 Baltic Sea
 - 132 Black Sea. Sea of Azov
 - 133 Mediterranean Sea
 - 134 Gulf of Mexico
 - 134.5 Caribbean Sea
 - 135 South Atlantic Ocean
 - 137 Indian Ocean. Red Sea
 - 137.5 Indo-Pacific Region
 - 138 Pacific Ocean
- 139 Brackish water. Estuaries
- Fresh water
 - 141 General works
 - Groundwater see QL118
 - 142 Water surface. Surface films. Neuston
 - 143 Zooplankton
 - 145 Streams
 - 146 Lakes
 - 146.3 Ponds
 - 147 Springs
 - Including hot springs
 - 148 Wells
 - 149 Stagnant water

Topographical divisions (Faunas)

America

- 150 General works
- North America
 - 151 General works
 - United States
 - 155 General works
 - 157.A-Z By region, A-Z
 - 157.A84 Atlantic Coast
 - 157.M52 Middle Atlantic States
 - 157.M53 Middle West
 - 157.N48 New England
 - 157.N67 Northeastern States
 - 157.P33 Pacific Coast

- Geographical distribution
Topographical divisions (Faunas)
America
North America
United States
By region, A-Z -- Continued
157.S68 Southern States
157.S69 Southwestern States
Including Southwest, New
- 159 Alabama
161 Alaska
162 Arizona
163 Arkansas
164 California
165 Colorado
166 Connecticut
167 Delaware
168 District of Columbia
169 Florida
171 Georgia
Hawaii see QL345.H3
- 172 Idaho
173 Illinois
175 Indiana
176 Iowa
177 Kansas
178 Kentucky
179 Louisiana
181 Maine
182 Maryland
183 Massachusetts
184 Michigan
185 Minnesota
186 Mississippi
187 Missouri
188 Montana
189 Nebraska
191 Nevada
192 New Hampshire
193 New Jersey
194 New Mexico
195 New York
196 North Carolina
197 North Dakota
198 Ohio
199 Oklahoma
201 Oregon

Geographical distribution

Topographical divisions (Faunas)

America

North America

United States -- Continued

- 202 Pennsylvania
- 203 Rhode Island
- 204 South Carolina
- 205 South Dakota
- 206 Tennessee
- 207 Texas
- 208 Utah
- 209 Vermont
- 211 Virginia
- 212 Washington
- 213 West Virginia
- 214 Wisconsin
- 215 Wyoming

Including Yellowstone National Park

Canada

- 219 General works
- 221.A-Z By region or province, A-Z

Latin America

- 223 General works
- 225 Mexico

Central America

- 227 General works
- 228.A-Z By region or country, A-Z

West Indies. Caribbean Area

- 229.A2 General works
- 229.A4-Z By individual island or group of islands, A-Z
- 229.A58 Antilles, Lesser
- 229.B3 Bahamas
- 229.C39 Cayman Islands
- 229.C9 Cuba
- 229.D65 Dominica
- 229.H35 Haiti
- 229.H57 Hispaniola
- 229.I5 Inagua
- 229.L4 Leeward Islands
- 229.P6 Puerto Rico
- 229.T7 Trinidad
- 229.V57 Virgin Islands
- 234 Bermuda

South America

- 235 General works
- By region or country

Geographical distribution

Topographical divisions (Faunas)

America

Latin America

South America

By region or country -- Continued

- 239 Argentina
- 241 Bolivia
- 242 Brazil
- 243 Chile
- 244 Colombia
- 245 Ecuador
 - For Galapagos Islands see QL345.G2
- 246 Guyana (British Guiana)
- 246.2 Suriname (Dutch Guiana)
- 246.4 French Guiana
- 247 Paraguay
- 247.4 Paraná River
- 248 Peru
- 249 Uruguay
- 251 Venezuela

Atlantic Ocean islands

- 252.A1 General works
- 252.A3-Z By individual island or group of islands, A-Z
 - Bermuda see QL234
 - Cabo Verde see QL252.C35
 - 252.C35 Cape Verde. Cabo Verde
 - 252.F32 Faroe Islands

Europe

- 253 General works
- 254 Regions not limited to a single country (not A-Z)
 - Including Alps, Balkan Peninsula, Baltic States, etc.
- British Isles. Great Britain
 - 255 General works
 - 256 England
 - 257 Ireland
 - 257.5 Northern Ireland
 - 258 Wales
 - 259 Scotland
- 261 Austria
- 262 Hungary
- France
 - 263 General works
 - 264 Colonies and mandated territories
- 265 Germany
- 271 Greece
- 273 Italy

Geographical distribution

Topographical divisions (Faunas)

Europe -- Continued

- 273.5 Malta
 275 Netherlands
 277 Belgium
 278 Luxembourg
 281 Russia. Soviet Union. Russia (Federation)
 Cf. QL331 Russia in Asia. Siberia. Russian Far East
 Cf. QL332+ Central Asia
 Cf. QL333.7 Caucasus
- 282 Belarus
 282.5 Moldova
 283 Ukraine
 284 Poland
 285 Finland
 286 Scandinavia (General)
 Denmark
 287 General works
 Faroe Islands see QL252.F32
- 288 Iceland
 289 Norway
 291 Sweden
 293 Spain
 294 Portugal
 Including the Azores, Madeira, etc.
- 296 Switzerland
 297 Turkey in Europe
 For Balkan Peninsula (General) see QL254
 For individual Balkan countries see QL298.A+
 For Turkey in Asia see QL333.5
- 298.A-Z Other European countries, A-Z
 298.B8 Bulgaria
 298.C8 Czechoslovakia. Czech Republic
 298.E86 Estonia
 298.L3 Latvia
 298.L58 Lithuania
 298.R8 Romania
 298.S65 Slovakia
 298.Y8 Yugoslavia
- Asia
 300 General works
 304 Afghanistan
 305 Arabian Peninsula (General)
 For individual countries see QL334.A+
- (306) Baluchistan
 307 China

Geographical distribution

Topographical divisions (Faunas)

Asia -- Continued

- 307.2 Taiwan
- 308 East Indies
- 309 India
- Indochina. Malay Peninsula
- 312 General works
- 313 Vietnam
- 314 Cambodia
- 315 Laos
- 317 Thailand
- 318 Straits Settlements
- Malay Archipelago
- 319 General works
- 319.5 Borneo. Kalimantan
- 320 Brunei
- 321 Indonesia
 - For Kalimantan see QL319.5
 - For Papua see QL322.5
- 322 Malaysia
- 322.5 New Guinea
 - Including Papua (Indonesia) and Papua New Guinea
- 323 Philippines
- Japan
- 325 General works
- 325.3 Ryukyu Islands
 - Including Okinawa
- 327 Korea
- 329 Iran
- 331 Russia in Asia. Siberia. Russian Far East
- Central Asia
- 332 General works
- 332.3 Kazakhstan
- 332.4 Kyrgyzstan
- 332.5 Tajikistan
- 332.6 Turkmenistan
- 332.7 Uzbekistan
- 333 Israel. Palestine
- 333.3 Syria
- 333.5 Turkey in Asia. Asia Minor
- 333.7 Caucasus
 - Including Armenia, Azerbaijan, Georgia (Republic)
- 334.A-Z
 - (334.A75) Other regions or countries, A-Z
 - Asia, Western
 - see QL334.M53
 - 334.B34 Bangladesh

Geographical distribution

Topographical divisions (Faunas)

Asia

Other regions or countries, A-Z -- Continued

- 334.B87 Burma. Myanmar
 334.C4 Ceylon. Sri Lanka
 334.M53 Middle East
 334.M65 Mongolia
 Myanmar see QL334.B87
 334.N44 Nepal
 334.O53 Oman
 334.P4 Pakistan
 334.S28 Saudi Arabia
 334.S56 Singapore
 Sri Lanka see QL334.C4
 (334.T87) Turkmenistan
 see QL332.6

Africa

- 336 General works
 337.A-Z By region or country, A-Z
 337.A44 Algeria
 337.A5 Angola
 337.B44 Benin
 337.B68 Botswana. Bechuanaland
 337.B8 British East Africa
 337.B9 Burkina Faso. Upper Volta
 337.B94 Burundi
 337.C25 Cameroon
 Cabo Verde see QL252.C35
 337.C43 Central Africa
 337.C44 Central African Republic
 337.C48 Chad
 337.C57 Congo (Brazzaville)
 337.C58 Congo (Democratic Republic). Zaire
 Côte d'Ivoire see QL337.I8
 337.D53 Djibouti
 337.E25 East Africa
 337.E3 Egypt
 337.E75 Equatorial Guinea
 337.E76 Eritrea
 337.E8 Ethiopia
 337.F7 French-speaking Equatorial Africa
 337.F75 French-speaking West Africa
 337.G32 Gabon
 337.G34 Gambia
 337.G56 Ghana
 337.G77 Guinea

Geographical distribution

Topographical divisions (Faunas)

Africa

By region or country, A-Z -- Continued

| | |
|----------|---------------------------------|
| 337.G8 | Guinea-Bissau |
| 337.I8 | Ivory Coast. Côte d'Ivoire |
| 337.K3 | Kalahari Desert |
| 337.K4 | Kenya |
| 337.L46 | Lesotho |
| 337.L7 | Liberia |
| 337.L72 | Libya |
| 337.L83 | Luangwa Valley |
| 337.M2 | Malagasy Republic. Madagascar |
| 337.M28 | Malawi |
| 337.M33 | Mali |
| 337.M37 | Mauritania |
| | Mauritius see QL337.6.M36 |
| 337.M65 | Morocco |
| 337.M7 | Mozambique |
| 337.N27 | Namibia |
| 337.N47 | Niger |
| 337.N5 | Nigeria |
| 337.N55 | Nimba, Mount, Region |
| | Rhodesia, Northern see QL337.Z3 |
| 337.R4 | Rhodesia, Southern. Zimbabwe |
| 337.R95 | Rwanda |
| 337.S3 | Sahara |
| 337.S34 | Sao Tome and Principe |
| 337.S44 | Senegal |
| | Seychelles see QL337.6.S49 |
| 337.S54 | Sierra Leone |
| 337.S6 | Somalia |
| 337.S65 | South Africa |
| 337.S656 | South Sudan |
| 337.S66 | Southern Africa |
| | Southwest Africa see QL337.N27 |
| 337.S78 | Sub-Saharan Africa |
| 337.S8 | Sudan |
| 337.S93 | Swaziland |
| 337.T27 | Tanganyika, Lake |
| 337.T3 | Tanzania |
| 337.T7 | Togo |
| 337.T84 | Tunisia |
| 337.U35 | Uganda |
| 337.W4 | West Africa |
| 337.W45 | Western Sahara |
| 337.Z3 | Zambia |

- Geographical distribution
 Topographical divisions (Faunas)
 Africa
 By region or country, A-Z -- Continued
 Zimbabwe see QL337.R4
 Indian Ocean islands
 General works
 By island or group of islands, A-Z
 Maldives
 Mauritius
 Seychelles
 Australia
 General works
 By state or territory, A-Z
 New Zealand
 Including adjacent islands
 Pacific islands
 General works
 By individual island or group of islands, A-Z
 Cook Islands
 Fiji
 Galapagos Islands
 Guam
 Hawaii
 Kermadec Islands
 Marquesas Islands
 Marshall Islands
 Micronesia
 New Caledonia
 New Guinea see QL322.5
 Palau
 Ryukyu Islands see QL325.3
 Tahiti
 Tonga
 Arctic regions, Antarctica see QL104+
 Tropics see QL109
- Classification. Systematics and taxonomy
 Principles
 Systems
 Nomenclature
 General works. Principles
 Nomenclators and checklists
 Popular names
 Invertebrates
 Dictionaries and encyclopedias
 General works, treatises, and textbooks
 Juvenile works

337.5
 337.6.A-Z
 337.6.M34
 337.6.M36
 337.6.S49

 338
 339.A-Z
 340

 345.A1
 345.A3-Z
 345.C65
 345.F53
 345.G2
 345.G83
 345.H3
 345.K47
 345.M3
 345.M34
 345.M53
 345.N3

 345.P35

 345.T3
 345.T65

 351
 352

 353
 354
 355

 360
 362
 362.4

Invertebrates -- Continued

Rare and endangered species

- 362.45 General works
- 362.46.A-Z By region or country, A-Z
- 362.5 Classification
- 362.7 Catalogs and collections
- 362.75 Evolution
- 362.8 Methods, culture, etc.
- 362.85 Immunology
- 362.9 Genetics
- 363 Anatomy and morphology
- 363.5 Metamorphosis
- 363.8 Cytology
- 364 Physiology
- 364.15 Reproduction
- 364.18 Development
 - Including larvae
- 364.2 Behavior
- 364.3 Feeding and feeds
- 364.4 Ecology
- 364.5 Coloniality. Animal colonies
 - Class here works on groupings of physically interconnected animals having a common ancestry through asexual reproduction
- 365 Animalcules. Early works on infusoria
- Geographical distribution
 - For geographical distribution of systematic divisions, see the division, e. g. QL366+, Protozoa
- 365.3 General works
- Physiographic divisions
- 365.34 Soil
 - Aquatic
 - 365.36 General works
 - 365.363 Marine
 - 365.365 Freshwater
- Topographic divisions
 - 365.4 North America (United States and Canada) (Table Q3)
 - Latin America
 - 365.43 General works
 - 365.44 Mexico, Central America, and West Indies (Table Q3)
 - 365.45 South America (Table Q3)
 - 365.46 Atlantic Ocean and islands (Table Q3)
 - 365.47 Europe (Table Q3)
 - 365.48 Asia (Table Q3)
 - 365.5 Africa (Table Q3)
 - 365.53 Indian Ocean and islands (Table Q3)
 - 365.54 Australia

Invertebrates

Geographical distribution

Topographic divisions -- Continued

- 365.55 New Zealand
- 365.56 Pacific Ocean and islands. Oceania (Table Q3)
- 365.57 Arctic Ocean and regions
- 365.58 Antarctic Ocean and Antarctica
- 365.6 Tropics

Protozoa

Cf. QR251+ Pathogenic protozoa

- 366 General works, treatises, and textbooks
- 366.5 Classification

Geographical distribution

For geographical distribution of systematic divisions
see QL368.A115+

- 367 General works
- 367.1 North America (United States and Canada) (Table Q3)
- 367.2 Mexico, Central America, and West Indies (Table Q3)
- 367.3 South America (Table Q3)
- 367.4 Europe (Table Q3)
- 367.5 Asia (Table Q3)
- 367.6 Africa (Table Q3)
- 367.7 Australia
- 367.75 New Zealand
- 367.8 Pacific islands (Table Q3)
- 367.9 Arctic regions
- 367.95 Antarctica
- 367.96 Tropics

Systematic divisions

- 368.A115 Plasmodroma
- 368.A12 Mastigophora (Phytomastigia; Zoomastigia). Flagellata
- 368.A14 Sarcodina (Rhizopoda; Actinopoda)
- 368.A16 Apicomplexa (Sporozoa)
- 368.A18 Cnidosporidia
- 368.A2 Ciliophora
- 368.A22 Ciliata (Holotricha; Spirotricha; Peritricha)
- Suctorina see QL368.S9
- 368.A3-Z By order or higher taxa, A-Z
 - Class works on species, genera, and families by order
 - 368.A32 Acantharia
 - 368.A33 Acanthometrida
 - 368.A335 Acanthophractida
 - 368.A36 Aconchulinida
 - 368.A38 Acrasida
 - 368.A4 Actinomyxida
 - 368.A44 Actinophryida
 - 368.A5 Amoebida

Invertebrates

Protozoa

Systematic divisions

By order or higher taxa, A-Z -- Continued

| | |
|----------|--------------------------------|
| 368.A57 | Apostomatida |
| 368.A63 | Arcellinida |
| 368.A66 | Archigregarinida |
| 368.A8 | Astomatida |
| 368.A85 | Athalamida |
| 368.B5 | Bicosoecida |
| 368.B55 | Blastocystida |
| 368.C4 | Centrohelida |
| 368.C48 | Chloromonadida |
| 368.C5 | Choanoflagellida |
| 368.C54 | Chonotrichida |
| 368.C57 | Chrysomonadida |
| 368.C59 | Coccidia |
| 368.C6 | Coccolithophorida |
| 368.C8 | Cryptomonadida |
| | Ctenostomatida see QL368.O4 |
| 368.D4 | Desmothoracida |
| (368.D6) | Dinoflagellida |
| | see QK569.D56 |
| 368.D65 | Diplomonadida |
| 368.E2 | Ebriida |
| 368.E5 | Entodiniomorphida |
| (368.E9) | Euglenida |
| | see QK569.E93 |
| 368.E92 | Eugregarinida |
| 368.E95 | Eumycetosoida |
| 368.F6 | Foraminiferida |
| 368.G8 | Gregarinida |
| 368.G85 | Gromiida |
| 368.G9 | Gymnostomatida |
| 368.H33 | Haemosporida |
| 368.H34 | Haplosporida |
| 368.H4 | Helicosporida |
| 368.H5 | Heliozoida |
| 368.H53 | Heterochlorida. Xanthomonadida |
| 368.H55 | Heterotrichida |
| 368.H87 | Hymenostomatida |
| 368.H9 | Hypermastigida |
| 368.H95 | Hypotrichida |
| | Infusoria see QL366 |
| 368.K5 | Kinetoplastida |
| 368.L3 | Labyrinthulida |
| 368.L62 | Lobosa |

Invertebrates

Protozoa

Systematic divisions

By order or higher taxa, A-Z -- Continued

- 368.M5 Microsporida
 368.M78 Mycetozoida
 368.M8 Myxosporida
 368.N4 Neogregarinida
 368.O3 Oculosida
 368.O4 Odontostomatida. Ctenostomatida
 368.O5 Oligotrichida
 368.O7 Opalinida
 368.O9 Oxynomadida
 368.P4 Peritrichida
 Phytomonadida see QL368.V6
 368.P52 Piroplasmida
 368.P55 Plasmodiophorida
 368.P62 Polymastigida
 368.P65 Porulosida
 368.P7 Proteomyxida
 368.P74 Protococcida
 Protomastigida see QL368.P76
 368.P76 Protomonadida. Protomastigida
 368.R2 Radiolarida
 368.R43 Retortamonadida
 368.R5 Rhizomastigida
 Sarcosporida see QL368.T6
 (368.S5) Silicoflagellida
 see QK569.S53
 368.S9 Suctorida
 368.T4 Testacida
 368.T5 Thigmotrichida
 368.T55 Tintinnida
 368.T6 Toxoplasmodida. Sarcosporida
 368.T7 Trichomonadida
 368.T76 Trichostomatida
 368.V6 Volvocida. Phytomonadida
 Xanthomonadida see QL368.H53
 368.X4 Xenophyophorida
 368.Z66 Zooflagellates
- 369 Anatomy and morphology
 369.2 Physiology
- Porifera (Sponges)
 370.7 Periodicals, societies, congresses, serial collections
 371 General works, treatises, and textbooks
 371.2 Pictorial works and atlases
 371.4 Popular works

Invertebrates

Porifera (Sponges) -- Continued

- 371.6 Juvenile works
Geographical distribution
For geographical distribution of systematic divisions
see QL373.A+
- 372 General works
- 372.1 North America (United States and Canada) (Table Q3)
- 372.2 Mexico, Central America, and West Indies (Table Q3)
- 372.3 South America (Table Q3)
- 372.4 Europe (Table Q3)
- 372.5 Asia (Table Q3)
- 372.6 Africa (Table Q3)
- 372.7 Australia
- 372.75 New Zealand
- 372.8 Pacific islands (Table Q3)
- 372.9 Arctic regions
- 372.95 Antarctica
- 372.96 Tropics
- 373.A-Z Systematic divisions. By class, A-Z
Class here works on species, genera, families and orders
- 373.C2 Calcispongiae (Calcarea)
- 373.D4 Demospongiae
- 373.H6 Hyalospongea (Hexactinellida)
- 374 Anatomy and morphology
- 374.2 Physiology
- Cnidaria
- 375 General works, treatises, and textbooks
- 375.2 Pictorial works and atlases
- 375.4 Popular works
- 375.6 Juvenile works
Geographical distribution
For geographical distribution of systematic divisions
see QL377.A+
- 376 General works
- 376.1 North America (United States and Canada) (Table Q3)
- 376.2 Mexico, Central America, and West Indies (Table Q3)
- 376.3 South America (Table Q3)
- 376.4 Europe (Table Q3)
- 376.5 Asia (Table Q3)
- 376.6 Africa (Table Q3)
- 376.7 Australia
- 376.75 New Zealand
- 376.8 Pacific islands (Table Q3)
- 376.9 Arctic regions
- 376.95 Antarctica
- 376.96 Tropics

Invertebrates

Cnidaria -- Continued

- 377.A-Z Systematic divisions. By class, A-Z
 Anthozoa (Corals)
- 377.C5 General works
- 377.C6 Alcyonaria
- 377.C7 Zoantharia
- Ctenophora see QL380+
- 377.H9 Hydrozoa (Hydromedusae; hydroids)
- 377.S4 Scyphozoa (Scyphomedusae; jellyfish)
- 378 Anatomy and morphology
- 378.2 Physiology
- 379 Zoophyta (old sense)
- Ctenophora
- 380 General works, treatises, and textbooks
- Geographical distribution
- For geographical distribution of systematic divisions
 see QL380.5.A+
- 380.3 General works
- 380.32 North America (United States and Canada) (Table Q3)
- 380.35 Mexico, Central America, and West Indies (Table Q3)
- 380.37 South America (Table Q3)
- 380.4 Europe (Table Q3)
- 380.42 Asia (Table Q3)
- 380.44 Africa (Table Q3)
- 380.46 Australasia and Indo-Pacific islands (Table Q3)
- 380.48 Polar regions
- 380.49 Tropics
- 380.5.A-Z Systematic divisions. By classes and orders
- Class works on species, genera, and families by order
- 380.5.N8-.N83 Nuda
- 380.5.N8 General works
- 380.5.N83 Beroida
- 380.5.T4-.T47 Tentaculata
- 380.5.T4 General works
- 380.5.T42 Cestida
- 380.5.T429 Cydippida
- 380.5.T45 Lobata
- 380.5.T47 Platyctenea
- 380.7 Anatomy and morphology
- 380.8 Physiology
- Echinodermata
- 381 General works, treatises, and textbooks
- 382 Classification
- 382.2 Catalogs and collections

Invertebrates

Echinodermata -- Continued

Geographical distribution

For geographical distribution of systematic divisions
see QL384.A+

- 383 General works
- 383.1 North America (United States and Canada) (Table Q3)
- 383.2 Mexico, Central America, and West Indies (Table Q3)
- 383.3 South America (Table Q3)
- 383.35 Atlantic islands (Table Q3)
- 383.4 Europe (Table Q3)
- 383.5 Asia (Table Q3)
- 383.6 Africa (Table Q3)
- 383.7 Australia
- 383.75 New Zealand
- 383.8 Pacific islands (Table Q3)
- 383.9 Arctic regions
- 383.95 Antarctica
- 383.96 Tropics
- 384.A-Z Systematic divisions. By class, A-Z
- Class works on species, genera, families, and orders by class
- 384.A8 Asteroidea (Starfishes)
- 384.C8 Crinoidea
- 384.E2 Echinoidea (Sea urchins)
- 384.H7 Holothurioidea (Sea cucumbers)
- 384.O6 Ophiuroidea (Brittle stars)
- 385 Anatomy and morphology
- 385.2 Physiology
- Worms and other vermiform invertebrates
- 386.A1 Periodicals, societies, congresses, serial publications
- 386.A3-Z General works, treatises, and textbooks
- Cf. QL392.A1+ Helminthology
- 386.6 Juvenile works
- 387 Classification
- 387.2 Catalogs and collections
- Geographical distribution
- For geographical distribution of systematic divisions
see QL391.A+
- 388 General works, treatises, and textbooks
- 388.1 North America (United States and Canada) (Table Q3)
- 388.2 Mexico, Central America, and West Indies (Table Q3)
- 388.3 South America (Table Q3)
- 388.4 Europe (Table Q3)
- 388.5 Asia (Table Q3)
- 388.6 Africa (Table Q3)
- 388.7 Australia
- 388.75 New Zealand

Invertebrates

Worms and other vermiform invertebrates

Geographical distribution -- Continued

- 388.8 Pacific islands (Table Q3)
- 388.9 Arctic regions
- 388.95 Antarctica
- 388.96 Tropics
- 391.A-Z Systematic divisions. By phylum, A-Z
- 391.A2 Acanthocephala (Spiny-headed worms)
- 391.A6 Annelida (Segmented worms)
- Cestoda see QL391.P7
- 391.C6 Chaetognatha (Arrowworms)
- 391.E2 Echiura
- 391.G2 Gastrotricha
- Gephyrea (Gastrotricha) see QL391.E2
- Gephyrea (Sipuncula) see QL391.S5
- 391.G63 Gnathostomulida
- Hirudinea see QL391.A6
- 391.K5 Kinorhyncha (Echinodera)
- 391.L67 Loricifera
- 391.M4 Mesozoa
- 391.N4 Nematoda (Roundworms)
- 391.N5 Nematomorpha (Gordiacea; horsehair worms)
- 391.N6 Nemertina (Rhynchocoela; ribbonworms)
- Oligochaeta see QL391.A6
- Onychophora see QL448
- Pentastomida see QL447.3
- 391.P5 Phoronida
- 391.P7 Platyhelminthes (Flatworms)
- (391.P85) Pogonophora
 - see QL391.A6
- 391.P93 Polychaeta see QL391.A6
- 391.R8 Priapulida
- 391.S5 Rotifera
- Sipuncula
- Trematoda see QL391.P7
- Turbellaria see QL391.P7

Helminthology

For geographic treatment see QL388+

- 392.A1 Periodicals, societies, congresses, serial publications
- 392.A3-Z General works, treatises, and textbooks
- 393 Anatomy and morphology
- 394 Physiology
- Brachiopoda (Lamp shells)
- 395 General works, treatises, and textbooks
- 395.1 Classification
- 395.15 Catalogs and collectors

Invertebrates

Brachiopoda (Lamp shells) -- Continued

Geographical distribution

For geographical distribution of systematic divisions
see QL395.8.A+

- 395.2 North America (United States and Canada) (Table Q3)
- 395.23 Mexico, Central America, and West Indies (Table Q3)
- 395.25 South America (Table Q3)
- 395.3 Europe (Table Q3)
- 395.4 Asia (Table Q3)
- 395.5 Africa (Table Q3)
- 395.6 Australia
- 395.63 New Zealand
- 395.67 Pacific islands (Table Q3)
- 395.7 Arctic regions
- 395.75 Antarctica
- 395.76 Tropics

395.8.A-Z Systematic divisions. By family, A-Z

Class here works on species, genera, and families
For works on higher taxa, see QL395+

- 395.8.C7 Craniidae
- 395.8.L7 Lingulidae
- 395.8.R5 Rhynchonellidae
- 395.8.T39 Terebrataliidae
- 395.8.T4 Terebratulidae
- 395.9 Anatomy and morphology
- 395.95 Physiology

Bryozoa (Ectoprocta; Polyzoa)

- 396 General works, treatises, and textbooks
- 396.5 Classification
- 396.7 Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions
see QL398.A+

- 397 General works
- 397.1 North America (United States and Canada) (Table Q3)
- 397.2 Mexico, Central America, and West Indies (Table Q3)
- 397.3 South America (Table Q3)
- 397.4 Europe (Table Q3)
- 397.5 Asia (Table Q3)
- 397.6 Africa (Table Q3)
- 397.7 Australia
- 397.75 New Zealand
- 397.8 Pacific islands (Table Q3)
- 397.9 Arctic regions
- 397.95 Antarctica
- 397.96 Tropics

Invertebrates

Bryozoa (Ectoprocta; Polyzoa) -- Continued

398.A-Z

Systematic divisions. By order, A-Z

Class here works on species, genera, families, and orders

Class higher taxa in+

398.C5

Cheilostomata

398.C8

Ctenostomata

398.C9

Cyclostomata

Ectoprocta see QL396+

Entoprocta see QL400+

398.L6

Lophopoda

399

Anatomy and morphology

399.2

Physiology

Entoprocta (Callyssozoa; Endoprocta)

400

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL400.5.A+

400.3

General works

400.32

North America (United States and Canada) (Table Q3)

400.35

Mexico, Central America, and West Indies (Table Q3)

400.37

South America (Table Q3)

400.4

Europe (Table Q3)

400.42

Asia (Table Q3)

400.44

Africa (Table Q3)

400.46

Australasia and the Indo-Pacific islands (Table Q3)

400.48

Polar regions

400.49

Tropics

400.5.A-Z

Systematic divisions. By family, A-Z

Class here works on species, genera, and families

Class higher taxa in QL400+

400.5.L6

Loxosomatidae

400.5.P4

Pedicellinidae

400.5.U7

Urnatellidae

Mollusca

Cf. SH365+ Oyster culture and fisheries

401

Periodicals, societies, congresses, serial publications

402

Collected works (nonserial)

402.3

Dictionaries and encyclopedias

403

General works, treatises, and textbooks

404

Pictorial works and atlases

405

Popular works

405.2

Juvenile works

Rare and endangered species

405.4

General works

405.43.A-Z

By region or country, A-Z

406

Classification

Invertebrates

Mollusca -- Continued

- 406.2 Catalogs and collections
- 406.5 Collection and preservation
- 406.55 Museums. Exhibitions
- 406.7 Evolution. Phylogeny. Speciation
- Geographical distribution
 - For geographic distribution of systematic divisions see QL430.1+
 - Physiographic divisions
 - Land
 - 407 General works
 - 407.5 Freshwater
 - Marine
 - For mollusks of particular coasts and islands see QL411+
 - 408 General works
 - 408.2 Atlantic Ocean
 - Cf. QL424.5 Atlantic islands
 - 408.5 Pacific Ocean
 - Cf. QL428.5 Pacific islands
 - 408.7 Indian Ocean
 - Topographical divisions
 - North America
 - 411 General works
 - 413 Canada
 - United States
 - 414 General works
 - 415.A-Z By region or state, A-Z
 - 416 Atlantic Coast
 - 417 Pacific Coast
 - (418) Pacific islands
 - see QL428.5
 - 419 Gulf Coast
 - Latin America
 - 420 General works
 - 421 Mexico
 - 422 Central America (Table Q3)
 - 423 West Indies (Table Q3)
 - 424 South America (Table Q3)
 - 424.5 Atlantic islands (Table Q3)
 - 425 Europe (Table Q3)
 - 426 Asia (Table Q3)
 - 427 Africa (Table Q3)
 - 428 Australia
 - 428.2 New Zealand
 - 428.5 Pacific islands (Table Q3)

Invertebrates

Mollusca

Geographical distribution

Topographical divisions -- Continued

- 429 Arctic regions
- 429.5 Antarctica
- 429.6 Tropics

Systematic divisions

Aplacophora (Solenogasters)

- 430.12 General works and orders
- 430.12.A-Z By family, A-Z
- 430.12.P76 Proneomeniidae

Polyplacophora (Chitons)

- 430.13 General works and orders
- 430.14.A-Z By family, A-Z
- 430.14.A26 Acanthochitonidae
- 430.14.C47 Chitonidae
- 430.14.I83 Ischnochitonidae
- 430.14.M64 Mopaliidae
- 430.15 Monoplacophora

Cephalopoda

- 430.2 General works and orders
- 430.3.A-Z By family, A-Z
- 430.3.A73 Architeuthidae
- 430.3.B3 Bathyteuthidae
- 430.3.C72 Cranchiidae
- 430.3.C9 Cycloteuthidae
- 430.3.E56 Enoploteuthidae
- 430.3.G66 Gonatidae
- 430.3.J68 Joubiniteuthidae
- 430.3.L8 Loliginidae
- 430.3.N4 Nautilidae
- 430.3.O2 Octopodidae (Octopuses)
- 430.3.O5 Ommastrephidae
- 430.3.O6 Onychoteuthidae
- 430.3.S47 Sepiidae
- 430.3.S49 Sepiolidae (Bobtail squids)
- 430.3.S65 Spirulidae
- 430.3.V35 Vampyroteuthidae

Gastropoda (Snails)

- 430.4 General works and orders
- 430.5.A-Z By family, A-Z
- 430.5.A18 Abalones see QL430.5.H34
- 430.5.A2 Abysochrysidae
- 430.5.A22 Achatinellidae
- 430.5.A23 Achatinidae
- 430.5.A23 Aciculidae

Invertebrates

Mollusca

Systematic divisions

Gastropoda (Snails)

By family, A-Z -- Continued

| | |
|-----------|--------------------------------|
| 430.5.A24 | Acilidae |
| 430.5.A26 | Acmaeidae |
| 430.5.A28 | Acroloxidae |
| 430.5.A29 | Actaeonidae |
| 430.5.A45 | Aeolidiidae |
| 430.5.A5 | Amastridae |
| | Amnicolidae see QL430.5.H9 |
| 430.5.A57 | Ampullariidae |
| 430.5.A63 | Ancylidae |
| 430.5.A66 | Aplysiidae |
| 430.5.A69 | Architectonicidae |
| 430.5.A7 | Arionidae |
| 430.5.A74 | Arminidae |
| 430.5.A8 | Atlantidae |
| 430.5.A85 | Atyidae |
| | Auriculidae see QL430.5.E45 |
| 430.5.B37 | Batillariidae |
| 430.5.B58 | Bithyniidae |
| 430.5.B73 | Bradybaenidae |
| 430.5.B75 | Buccinidae |
| 430.5.B8 | Bulimulidae |
| 430.5.B84 | Bulinidae |
| 430.5.C18 | Caecidae |
| 430.5.C22 | Calyptraeidae |
| 430.5.C25 | Camaenidae |
| 430.5.C26 | Cancellariidae |
| 430.5.C3 | Cassidae |
| 430.5.C35 | Cavolinidae |
| 430.5.C38 | Cerionidae |
| 430.5.C4 | Cerithiidae |
| 430.5.C43 | Cerithiopsidae |
| 430.5.C49 | Chiliniidae |
| 430.5.C53 | Chondropomatidae |
| 430.5.C56 | Chromodorididae |
| 430.5.C57 | Clausiliidae |
| 430.5.C6 | Clionidae |
| 430.5.C73 | Columbellidae |
| 430.5.C75 | Conidae |
| | Cowries see QL430.5.C94 |
| 430.5.C82 | Cyclophoridae |
| | Cyclostomidae see QL430.5.P63 |
| | Cylindrellidae see QL430.5.U68 |

Invertebrates

Mollusca

Systematic divisions

Gastropoda (Snails)

By family, A-Z -- Continued

| | |
|-------------|-------------------------------|
| (430.5.C93) | Cymatiidae
see QL430.5.R35 |
| 430.5.C94 | Cypraeidae (Cowries) |
| 430.5.D43 | Diastomatidae |
| 430.5.D55 | Dolabriferidae |
| 430.5.D6 | Dorididae |
| 430.5.E45 | Ellobiidae |
| 430.5.E48 | Elysiidae |
| 430.5.E5 | Endodontidae |
| 430.5.E55 | Entoconchidae |
| 430.5.E6 | Epitoniidae |
| 430.5.E9 | Eulimidae |
| 430.5.F2 | Fasciolariidae |
| 430.5.F53 | Ficidae |
| 430.5.F57 | Fissurellidae |
| 430.5.F58 | Flabellinidae |
| 430.5.G34 | Gadiniidae |
| 430.5.H34 | Haliotidae (Abalones) |
| 430.5.H37 | Helicarionidae |
| 430.5.H4 | Helicidae |
| 430.5.H45 | Helicindae |
| 430.5.H46 | Helminthoglyptidae |
| | Hermaeidae see QL430.5.S75 |
| 430.5.H9 | Hydrobiidae |
| 430.5.J3 | Janellidae |
| 430.5.J36 | Janthinidae |
| 430.5.J8 | Juliidae |
| 430.5.L2 | Lamellariidae |
| 430.5.L33 | Lepetidae |
| 430.5.L4 | Limacidae |
| | Limnaeidae see QL430.5.L85 |
| 430.5.L58 | Littorinidae |
| 430.5.L85 | Lymnaeidae |
| 430.5.M3 | Marginellidae |
| | Melaniidae see QL430.5.T45 |
| 430.5.M44 | Melanopsidae |
| 430.5.M47 | Melongenidae |
| 430.5.M57 | Mitridae |
| 430.5.M9 | Muricidae |
| 430.5.N27 | Nacellidae |
| 430.5.N3 | Nassariidae |
| 430.5.N35 | Naticidae |

Invertebrates

Mollusca

Systematic divisions

Gastropoda (Snails)

By family, A-Z -- Continued

| | |
|-----------|-------------------------------|
| 430.5.N5 | Neritidae |
| 430.5.O5 | Olividae |
| 430.5.O73 | Oreohelicidae |
| 430.5.O78 | Orthalicidae |
| 430.5.P15 | Partulidae |
| 430.5.P18 | Patellidae |
| 430.5.P2 | Personidae |
| 430.5.P23 | Phasianellidae |
| 430.5.P25 | Philomycidae |
| 430.5.P33 | Phyllidiidae |
| 430.5.P35 | Phylliroidae |
| 430.5.P37 | Physidae |
| 430.5.P46 | Planaxidae |
| 430.5.P48 | Planorbidae |
| 430.5.P49 | Pleurobranchidae |
| 430.5.P5 | Pleuroceridae |
| 430.5.P6 | Polygyridae |
| 430.5.P63 | Pomatiasidae |
| 430.5.P64 | Pomatiopsidae |
| 430.5.P68 | Potamididae |
| | Proserpinidae see QL430.5.H45 |
| 430.5.P9 | Pupillidae |
| 430.5.P92 | Pupinidae |
| 430.5.P95 | Pyramidellidae |
| 430.5.R35 | Ranellidae |
| 430.5.R45 | Rhodopidae |
| 430.5.R48 | Rhytididae |
| 430.5.R57 | Rissoidae |
| | Scalariidae see QL430.5.E6 |
| 430.5.S25 | Scissurellidae |
| 430.5.S56 | Siphonariidae |
| 430.5.S65 | Spiraxidae |
| 430.5.S74 | Stiliferidae |
| 430.5.S75 | Stiligeridae |
| 430.5.S78 | Streptaxidae |
| 430.5.S8 | Strombidae |
| 430.5.S83 | Strophocheilidae |
| 430.5.S87 | Succineidae (Ambersnails) |
| 430.5.T25 | Terebridae |
| 430.5.T3 | Testacellidae |
| 430.5.T35 | Tethyidae |
| 430.5.T45 | Thiaridae |

Invertebrates

Mollusca

Systematic divisions

Gastropoda (Snails)

By family, A-Z -- Continued

- | | |
|-------------|---|
| 430.5.T63 | Tonnidae |
| 430.5.T65 | Tornidae |
| 430.5.T67 | Tricoliidae |
| 430.5.T7 | Tritoniidae |
| 430.5.T75 | Trochidae |
| 430.5.T78 | Truncatellidae |
| 430.5.T85 | Turbinellidae |
| 430.5.T9 | Turbinidae |
| 430.5.T95 | Turridae |
| 430.5.T96 | Turritellidae (Turretsnails, wormsnails) |
| 430.5.U68 | Urocoptidae |
| 430.5.U7 | Urocyclidae |
| | Vaginulidae see QL430.5.V4 |
| 430.5.V34 | Valloniidae |
| 430.5.V36 | Valvatidae |
| (430.5.V37) | Vasidae |
| | see QL430.5.T85 |
| 430.5.V4 | Veronicellidae |
| 430.5.V65 | Vitronellidae |
| 430.5.V7 | Viviparidae |
| 430.5.V75 | Volutidae |
| 430.5.V77 | Volutomitridae |
| 430.5.X46 | Xenophoridae |
| 430.5.Z6 | Zonitidae |
| | Bivalvia (Lamellibranchia; pelecypoda; clams) |
| 430.6 | General works and orders |
| 430.7.A-Z | By family, A-Z |
| 430.7.A34 | Amblemidae |
| 430.7.A4 | Anatinidae |
| 430.7.A72 | Arcidae |
| 430.7.A74 | Arcticidae |
| 430.7.A8 | Astartidae |
| 430.7.C2 | Cardiidae |
| 430.7.C24 | Carditidae |
| 430.7.C53 | Chamidae |
| 430.7.C67 | Corbiculidae |
| 430.7.C69 | Corbulidae |
| 430.7.C8 | Crassatellidae |
| | Cyrenidae see QL430.7.C67 |
| 430.7.D55 | Dimyidae |
| 430.7.D65 | Donacidae |
| 430.7.D8 | Dreisseniidae |

Invertebrates

Mollusca

Systematic divisions

Bivalvia (Lamellibranchia; pelecypoda; clams)

By family, A-Z -- Continued

| | |
|-------------|---------------------------|
| 430.7.G23 | Gastrochaenidae |
| 430.7.G55 | Glossidae |
| 430.7.G78 | Gryphaeidae |
| 430.7.H53 | Hiatellidae |
| 430.7.H87 | Hyriidae |
| 430.7.L35 | Lametilidae |
| 430.7.L4 | Ledidae |
| 430.7.L5 | Limidae |
| 430.7.L8 | Lucinidae |
| 430.7.M3 | Mactridae |
| 430.7.M37 | Margaritiferidae |
| 430.7.M85 | Mycetopodidae |
| 430.7.M9 | Myidae |
| 430.7.M95 | Mytilidae |
| 430.7.N63 | Noetiidae |
| 430.7.N85 | Nuculanidae |
| 430.7.N9 | Nuculidae |
| 430.7.O9 | Ostreidae (Oysters) |
| 430.7.P3 | Pectinidae |
| 430.7.P48 | Philobryidae |
| 430.7.P5 | Pholadidae |
| 430.7.P56 | Pinnidae |
| (430.7.P59) | Pisidiidae |
| | see QL430.7.S65 |
| 430.7.P7 | Pristiglomidae |
| 430.7.P75 | Psammobiidae |
| 430.7.P77 | Pteriidae (Pearl oysters) |
| 430.7.S43 | Semelidae |
| 430.7.S5 | Siliculidae |
| 430.7.S58 | Solemyidae |
| 430.7.S6 | Solenidae (Razor clams) |
| 430.7.S65 | Sphaeriidae |
| 430.7.S68 | Spondylidae |
| 430.7.T3 | Tellinidae |
| 430.7.T4 | Teredinidae |
| 430.7.T47 | Thraciidae |
| 430.7.T55 | Tindariidae |
| 430.7.T7 | Tridacnidae |
| 430.7.U6 | Unionidae |
| 430.7.V5 | Veneridae |
| 430.8 | Scaphopoda (Tusk shells) |
| 431 | Anatomy and morphology |

Invertebrates

Mollusca -- Continued

- 431.2 Physiology
- 431.3 Reproduction and spawning
- 431.4 Behavior
- 432 Miscellany and curiosa

Arthropoda

- 434.A1 Periodicals, societies, congresses, serial publications
- 434.A3-Z General works, treatises, and textbooks
- 434.13 Pictorial works and atlases
- 434.14 Popular works
- 434.15 Juvenile works
- 434.2 Classification
- 434.3 Catalogs and collections
- 434.35 Evolution. Speciation
- 434.4 Study and teaching. Research
- 434.45 Poisonous arthropods. Dangerous arthropods
- Geographical distribution
 - For geographical distribution of systematic divisions, see the division below
- 434.5 General works
- 434.52 North America (United States and Canada) (Table Q3)
- 434.53 Mexico, Central America, and West Indies (Table Q3)
- 434.54 South America (Table Q3)
- 434.55 Europe (Table Q3)
- 434.56 Asia (Table Q3)
- 434.57 Africa (Table Q3)
- 434.58 Australasia and Indo-Pacific islands (Table Q3)
- 434.59 Polar regions
- 434.6 Tropics
- 434.7 Anatomy and morphology
- 434.715 Cytology
- 434.72 Physiology
- 434.8 Behavior
- Crustacea
 - 435.A1 Periodicals, societies, congresses, serial publications
 - 435.A3-Z General works, treatises, and textbooks
 - 436 Pictorial works and atlases
 - 437 Popular works
 - 437.2 Juvenile works
 - 438 Classification
 - 438.2 Catalogs and collections
 - 438.5 Evolution. Phylogeny
 - Geographical distribution
 - For geographical distribution of systematic divisions see QL444.A+
- 441 General works

Invertebrates

Arthropoda

Crustacea

Geographical distribution -- Continued

- 441.1 North America (United States and Canada) (Table Q3)
- 441.2 Mexico, Central America, and West Indies (Table Q3)
- 441.3 South America (Table Q3)
- 441.4 Europe (Table Q3)
- 441.5 Asia (Table Q3)
- 441.6 Africa (Table Q3)
- 441.7 Australia
- 441.75 New Zealand
- 441.8 Pacific islands (Table Q3)
- 441.9 Arctic regions
- 441.95 Antarctica
- 441.96 Tropics
- 444.A-Z Systematic divisions. By subclasses and orders, A-Z

Class here works on species, genera, and families by order

Branchiopoda

- 444.B8 General works
- 444.B815 Anostraca (Fairy shrimps)
- 444.B83 Cladocera (Water fleas)
- 444.B834 Conchostraca (Clam shrimps)
- 444.B86 Notostraca (Tadpole shrimps)
- 444.B9 Branchiura (Fish lice)
- 444.C4 Cephalocarida

Cirripedia

- 444.C5 General works
- 444.C52 Acrothoracica
- 444.C527 Ascothoracica
- 444.C57 Rhizocephala
- 444.C58 Thoracica (Barnacles)

Copepoda

- 444.C7 General works
- 444.C72 Calanoida
- (444.C722) Caligoida
 - see QL444.C79
- 444.C73 Cyclopoida
- 444.C74 Harpacticoida
- 444.C75 Lernaepodoida
- 444.C756 Monstrilloida
- 444.C76 Notodelphyoida
- 444.C78 Poecilostomatoida
- 444.C79 Siphonostomatoida

Entomostraca see QL435+

Malacostraca

- 444.M3 General works

Invertebrates

Arthropoda

Crustacea

Systematic divisions. By subclasses and orders, A-Z

Malacostraca -- Continued

- 444.M315 Amphipoda (Sand hoppers; whale lice)
- 444.M317 Anaspidacea
- 444.M32 Bathynellacea
- 444.M328 Cumacea
- 444.M33 Decapoda (Shrimps; lobsters; crabs)
- 444.M338 Euphausiacea
- 444.M34 Isopoda (Pill bugs; wood lice)
- 444.M347 Leptostraca
- 444.M35 Mysidacea (Opossum shrimps)
- 444.M37 Spelaeogriphacea
- 444.M375 Stomatopoda
- 444.M378 Stygocaridacea
- 444.M38 Tanaidacea
- 444.M384 Thermosbaenacea
- 444.M9 Mystacocarida

Ostracoda (Seed shrimps)

- 444.O8 General works
- 444.O83 Halocyprida
- 444.O85 Myodocopida
- 444.O86 Podocopida

445 Anatomy and morphology

445.2 Physiology

- 447 Pycnogonida (Pantopoda)
- 447.3 Pentastomida (Linguatulida; tongue worms)
- 447.5 Tardigrada (Water bears)
- 447.7 Merostomata (Xiphosura)
- 448 Onychophora

Myriapoda

449 General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions
see QL449.5+

- 449.3 General works
- 449.32 North America (United States and Canada) (Table Q3)
- 449.35 Mexico, Central America, and West Indies (Table Q3)
- 449.37 South America (Table Q3)
- 449.4 Europe (Table Q3)
- 449.42 Asia (Table Q3)
- 449.44 Africa (Table Q3)
- 449.46 Australasia and Indo-Pacific islands (Table Q3)
- 449.48 Polar regions
- 449.49 Tropics

Invertebrates

Arthropoda

Myriapoda -- Continued

Systematic divisions

Class here works on species, genera, and families by family; high taxa by class

Chilopoda (Centipedes)

General works and orders

By family, A-Z

- | | |
|------------|--------------------------|
| 449.5 | General works and orders |
| 449.55.A-Z | By family, A-Z |
| 449.55.C4 | Cermatobiidae |
| 449.55.C7 | Craterostigmidae |
| 449.55.C78 | Cryptopidae |
| 449.55.D5 | Dignathodontidae |
| 449.55.E8 | Ethopolyidae |
| 449.55.G4 | Geophilidae |
| 449.55.G66 | Gonibregmatidae |
| 449.55.G68 | Gosibiidae |
| 449.55.H4 | Henicopidae |
| 449.55.H5 | Himantariidae |
| 449.55.L5 | Lithobiidae |
| 449.55.M4 | Mecistocephalidae |
| 449.55.N4 | Neogeophilidae |
| 449.55.O7 | Oryidae |
| 449.55.S25 | Schendylidae |
| 449.55.S3 | Scolopendridae |
| 449.55.S37 | Scutigerae |
| 449.55.S63 | Sogonidae |
| 449.55.S66 | Soniphilidae |
| 449.55.W3 | Watobiidae |

Diplopoda (Millipedes)

General works and orders

By family, A-Z

- | | |
|-------------|--------------------------|
| 449.6 | General works and orders |
| 449.65.A-Z | By family, A-Z |
| 449.65.A6 | Andrognathidae |
| 449.65.A8 | Atopetholidae |
| 449.65.B4 | Blaniulidae |
| 449.65.C24 | Callipodidae |
| 449.65.C25 | Cambalidae |
| 449.65.C28 | Caseyidae |
| 449.65.C37 | Chelodesmidae |
| 449.65.C4 | Chordeumidae |
| 449.65.C5 | Cleidogonidae |
| 449.65.C6 | Conotylidae |
| 449.65.C72 | Craspedosomidae |
| 449.65.C79 | Cryptodesmidae |
| 449.65.E87 | Eurymerodesmidae |
| 449.65.E878 | Euryuridae |
| 449.65.G4 | Gervaisiidae |

Invertebrates

Arthropoda

Myriapoda

Systematic divisions

Diplopoda (Millipedes)

By family, A-Z -- Continued

- 449.65.G5 Glomeridae
 449.65.G53 Glomeridesmidae
 449.65.H37 Harpagophoridae
 449.65.J8 Julidae
 449.65.L4 Leioderidae
 449.65.L9 Lysiopetalidae
 449.65.N4 Nearctodesmidae
 449.65.O6 Oniscodesmidae
 449.65.O95 Oxydesmidae
 449.65.P18 Pachybolidae
 449.65.P22 Paeromopidae
 449.65.P27 Paradoxsomatidae
 449.65.P273 Paraiulidae
 449.65.P42 Platydesmidae
 449.65.P427 Platyrrhacidae
 449.65.P64 Polydesmidae
 449.65.P648 Polyxenidae
 449.65.P649 Polyzoniidae
 449.65.R4 Rhinocricidae
 449.65.S56 Siphoniulidae
 449.65.S565 Siphonophoridae
 449.65.S64 Sphaeriodesmidae
 449.65.S645 Sphaerotheridae
 449.65.S65 Spirobolidae
 449.65.S655 Spirostreptidae
 449.65.S88 Strongylosomidae see QL449.65.P27
 449.65.S88 Stylodesmidae
 449.65.S95 Synxenidae
 449.65.T56 Tingupidae
 449.65.T75 Trichopolydesmidae
 449.65.V34 Vanhoeffeniidae
 449.65.X9 Xystodesmidae
- Pauropoda
 449.7 General works
 449.75.A-Z By family, A-Z
 449.75.B7 Brachypauropodidae
 449.75.E8 Eurypauropodidae
 449.75.P3 Pauropodidae
- Symphyla
 449.8 General works
 449.85.A-Z By family, A-Z

- Invertebrates
 - Arthropoda
 - Myriapoda
 - Systematic divisions
 - Symphyla
 - By family, A-Z -- Continued
 - 449.85.G4 Geophilellidae
 - 449.85.S25 Scolopendrellidae
 - 449.85.S3 Scutigereidae
 - 449.9 Anatomy and morphology
 - 449.92 Physiology
 - Arachnida (Scorpions; spiders; mites; etc.)
 - 451 General works, treatises, and textbooks
 - 452 Popular works
 - 452.2 Juvenile works
 - 452.8 Classification
 - 453 Catalogs and collections
 - Geographical distribution
 - For geographical distribution of systematic divisions
see QL458+
 - 453.1 North America (United States and Canada) (Table Q3)
 - 453.2 Mexico, Central America, and West Indies (Table Q3)
 - 453.3 South America (Table Q3)
 - 453.35 Atlantic islands (Table Q3)
 - 453.4 Europe (Table Q3)
 - 453.5 Asia (Table Q3)
 - 453.6 Africa (Table Q3)
 - Australasia
 - 453.68 General works
 - 453.7 Australia
 - 453.75 New Zealand
 - 453.8 Pacific islands (Table Q3)
 - 453.9 Arctic regions
 - 453.95 Antarctica
 - 453.96 Tropics
 - Systematic divisions
 - Acari (Acarina). Mites
 - 458 General works
 - 458.15.A-Z By order, A-Z
 - 458.15.A33 Acariformes
 - Notostigmata see QL458.15.O65
 - 458.15.O65 Opilioacariformes
 - 458.15.P37 Parasitiformes
 - 458.2.A-Z By family, A-Z
 - 458.2.A3 Acaridae
 - 458.2.A4 Alloptidae
 - 458.2.A45 Ameronothridae

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Acari (Acarina). Mites

By family, A-Z -- Continued

| | |
|------------|--------------------------|
| 458.2.A5 | Analgidae |
| 458.2.A58 | Anystidae |
| 458.2.A74 | Argasidae |
| 458.2.A77 | Arrenuridae |
| 458.2.B4 | Bdellidae |
| 458.2.B7 | Brachychthoniidae |
| 458.2.C28 | Caeculidae |
| 458.2.C3 | Carpoglyphidae |
| 458.2.C37 | Cercomegistidae |
| 458.2.C39 | Chaetodactylidae |
| 458.2.C4 | Cheyletidae |
| 458.2.C8 | Cunaxidae |
| 458.2.C9 | Cytoditidae |
| 458.2.D45 | Demodicidae |
| 458.2.D47 | Dermanyssidae |
| 458.2.D475 | Dermoglyphidae |
| 458.2.D56 | Diptilomiopidae |
| 458.2.E45 | Echimyopodidae |
| 458.2.E6 | Epidermoptidae |
| 458.2.E73 | Eremaeidae |
| 458.2.E75 | Eriophyidae |
| 458.2.E78 | Erythraeidae |
| 458.2.E8 | Eupodidae |
| 458.2.E84 | Eustathiidae |
| 458.2.E9 | Eylidae |
| 458.2.F3 | Falculiferidae |
| 458.2.G34 | Galumnidae |
| | Gamasidae see QL458.2.P3 |
| 458.2.G4 | Glycyphagidae |
| 458.2.H3 | Halacaridae |
| 458.2.H38 | Hermanniidae |
| 458.2.H4 | Heterocheylidae |
| 458.2.H9 | Hydrachnidae |
| 458.2.H98 | Hydryphantidae |
| 458.2.I9 | Ixodidae |
| 458.2.K5 | Knemidokoptidae |
| 458.2.L3 | Labidocarpidae |
| 458.2.L33 | Laelapidae |
| 458.2.L44 | Leeuwenhoekiiidae |
| 458.2.L54 | Limnocharidae |
| 458.2.L58 | Listrophoridae |

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Acari (Acarina). Mites

By family, A-Z -- Continued

| | |
|-----------|------------------------------|
| 458.2.L67 | Lordalycidae |
| 458.2.M3 | Macronyssidae |
| 458.2.M53 | Microtrombidiidae |
| 458.2.M9 | Myobiidae |
| 458.2.M93 | Myocoptidae |
| 458.2.N67 | Nothridae |
| 458.2.O74 | Oribatidae |
| 458.2.P3 | Parasitidae |
| 458.2.P35 | Penthaleidae |
| 458.2.P37 | Phytoptidae |
| 458.2.P4 | Phytoseiidae |
| 458.2.P44 | Pionidae |
| 458.2.P6 | Podapolipodidae |
| 458.2.P65 | Pontarachnidae |
| 458.2.P74 | Proctophyllodidae |
| 458.2.P8 | Psoroptidae |
| 458.2.P85 | Pterolichidae |
| 458.2.P87 | Pterygosomatidae |
| 458.2.P9 | Pyemotidae |
| 458.2.P95 | Pyroglyphidae |
| 458.2.R36 | Raphignathidae |
| 458.2.R45 | Rhagidiidae |
| 458.2.R47 | Rhodacaridae |
| 458.2.R66 | Rosensteiniidae |
| 458.2.S25 | Sarcoptidae |
| 458.2.S3 | Scutacaridae |
| 458.2.S7 | Sperchonidae |
| 458.2.S75 | Spinturnicidae |
| 458.2.S8 | Stigmaeidae |
| 458.2.S89 | Syringobiidae |
| 458.2.S9 | Syringophilidae |
| 458.2.T3 | Tarsonemidae |
| 458.2.T36 | Tenuipalpidae |
| 458.2.T4 | Tetranychidae (Spider mites) |
| 458.2.T5 | Thyasidae |
| 458.2.T7 | Trachytidae |
| 458.2.T75 | Trombiculidae |
| 458.2.T76 | Trombidiidae |
| 458.2.U5 | Unionicolidae |
| 458.2.U7 | Uropodidae |
| 458.2.V37 | Varroidae |

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Acari (Acarina). Mites

By family, A-Z -- Continued

458.2.X65

Xolalgidae

458.2.Z4

Zerconidae

Amblypygi (Phrynichida)

458.3

General works

458.32.A-Z

By family, A-Z

458.32.C4

Charonidae

458.32.P56

Phrynichidae

458.32.P57

Phrynidae

458.32.T3

Tarantulidae

Araneae (Araneida). Spiders

458.4

General works

Geographical distribution

458.41

North America (United States, Canada, and
Greenland) (Table Q3)

458.412

Mexico, Central America, and West Indies (Table
Q3)

458.413

South America (Table Q3)

458.4135

Atlantic islands (Table Q3)

458.414

Europe (Table Q3)

458.415

Asia (Table Q3)

458.416

Africa (Table Q3)

458.4165

Indian Ocean islands (Table Q3)

Australasia

458.417

General works

458.4173

Australia

458.4175

New Zealand

458.418

Pacific islands (Table Q3)

Polar regions

458.4185

General works

458.419

Arctic regions

458.4195

Antarctica

458.4197

Tropics

458.42.A-Z

By family, A-Z

458.42.A2

Acanthoectenidae

458.42.A28

Actinopodidae

458.42.A3

Agelenidae

458.42.A4

Amaurobiidae

Amaurobioididae see QL458.42.A57

458.42.A45

Ammoxenidae

458.42.A48

Anapidae

458.42.A5

Antrodiaetidae

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Araneae (Araneida). Spiders

By family, A-Z -- Continued

| | |
|-------------|--------------------------------|
| 458.42.A57 | Anyphaenidae |
| 458.42.A7 | Araneidae (Orb weavers) |
| 458.42.A73 | Archaeidae |
| | Argiopidae see QL458.42.A7 |
| | Attidae see QL458.42.S24 |
| 458.42.A8 | Atypidae |
| | Aviculariidae see QL458.42.T5 |
| 458.42.B3 | Barychelidae |
| 458.42.C3 | Caponiidae |
| 458.42.C4 | Clubionidae |
| 458.42.C67 | Corinnidae |
| 458.42.C8 | Ctenidae |
| 458.42.C83 | Ctenizidae |
| 458.42.C93 | Cyatholipidae |
| | Deinopidae see QL458.42.D55 |
| 458.42.D44 | Desidae |
| 458.42.D5 | Dictynidae |
| 458.42.D53 | Diguetidae |
| 458.42.D55 | Dinopidae. Deinopidae |
| 458.42.D56 | Dipluridae |
| 458.42.D9 | Dysderidae |
| 458.42.E7 | Eresidae (Velvet spiders) |
| | Eusparassidae see QL458.42.H48 |
| 458.42.F5 | Filistatidae |
| 458.42.G5 | Gnaphosidae |
| 458.42.G7 | Gradungulidae |
| 458.42.H3 | Hadrotarsidae |
| 458.42.H33 | Hahniidae |
| 458.42.H47 | Hersiliidae |
| 458.42.H48 | Heteropodidae |
| 458.42.H6 | Homalonychidae |
| 458.42.H9 | Hypochilidae |
| 458.42.L3 | Lamponidae |
| 458.42.L4 | Leptonetidae |
| 458.42.L55 | Linyphiidae |
| 458.42.L555 | Liocranidae |
| 458.42.L56 | Liphistiidae |
| 458.42.L6 | Loxoscelidae |
| 458.42.L9 | Lycosidae (Wolf spiders) |
| 458.42.M4 | Mecicobothriidae |
| 458.42.M5 | Microstigmatidae |

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Araneae (Araneida). Spiders

By family, A-Z -- Continued

| | |
|------------|------------------------------|
| 458.42.M53 | Migidae |
| 458.42.M54 | Mimetidae |
| 458.42.M97 | Mysmenidae |
| 458.42.N37 | Nemesiidae |
| 458.42.N38 | Nephilidae |
| 458.42.N4 | Nesticidae |
| 458.42.O3 | Ochyroceratidae |
| 458.42.O4 | Oecobiidae |
| 458.42.O6 | Oonopidae |
| 458.42.O9 | Oxyopidae |
| 458.42.P34 | Palpimanidae |
| 458.42.P37 | Paratropidae |
| 458.42.P39 | Philodromidae |
| 458.42.P4 | Pholcidae |
| 458.42.P47 | Pimoidae |
| 458.42.P5 | Pisauridae |
| 458.42.P6 | Platoridae |
| 458.42.P64 | Plectreuridae |
| 458.42.P7 | Prodidomidae |
| 458.42.P8 | Psechridae |
| 458.42.P9 | Pycnothelidae |
| 458.42.S24 | Salticidae (Jumping spiders) |
| 458.42.S3 | Scytodidae |
| 458.42.S44 | Selenopidae |
| 458.42.S45 | Senoculidae |
| 458.42.S5 | Sicariidae |
| | Sparassidae see QL458.42.H48 |
| 458.42.S7 | Stenochilida |
| 458.42.S73 | Stiphidiidae |
| 458.42.S9 | Symphytognathidae |
| 458.42.T44 | Telmidae |
| 458.42.T45 | Tengellidae |
| 458.42.T46 | Tetrabelmidae |
| 458.42.T48 | Tetragnathidae |
| 458.42.T5 | Theraphosidae (Tarantulas) |
| 458.42.T54 | Theridiidae (Cobweb weavers) |
| 458.42.T55 | Theridiosomatidae |
| 458.42.T56 | Thomisidae |
| 458.42.T6 | Toxopidae |
| 458.42.U4 | Uloboridae |
| 458.42.U7 | Urocteidae |

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Araneae (Araneida). Spiders

By family, A-Z -- Continued

458.42.Z63

Zodariidae

458.42.Z67

Zoropsidae

Opiliones (Opiliona; Phalangiida)

458.5

General works

458.52.A-Z

By family, A-Z

458.52.A8

Assamiidae

458.52.C6

Cosmetidae

458.52.G6

Gonyleptidae

458.52.I7

Ischyropsalidae

458.52.L44

Leiobunidae

458.52.N4

Nemastomatidae

458.52.O5

Oncopodidae

458.52.P45

Phalangiidae

458.52.P46

Phalangodidae

458.52.S5

Sironidae

458.52.S9

Synthetonychidae

458.52.T75

Triaenonychidae

458.52.T76

Trogulidae

Palpigradi (Palpigradida)

458.55

General works

458.57.A-Z

By family, A-Z

458.57.E9

Eukoeneniidae

Pseudoscorpiones (Book scorpions; Chelonethida;

Pseudoscorpionida)

458.6

General works

458.62.A-Z

By family, A-Z

458.62.C37

Chernetidae

458.62.C4

Chthoniidae

458.62.G3

Garypidae

458.62.H9

Hyidae

458.62.I3

Ideoroncidae

458.62.M4

Menthidae

458.62.N4

Neobisiidae

458.62.O4

Olpiidae

458.62.S9

Syarinidae

458.62.T7

Tridenchthoniidae

Ricinulei (Ricinuleida; Podogonata; Rhinogastra)

458.65

General works

458.67.A-Z

By family, A-Z

458.67.R5

Ricinoididae

Schizomida

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Schizomida -- Continued

458.69

General works

458.692.A-Z

By family, A-Z

458.692.H82

Hubbardiidae

458.692.P75

Protoschizomidae

Schizomidae see QL458.692.H82

Scorpiones (Scorpionida)

458.7

General works

458.72.A-Z

By family, A-Z

458.72.B6

Bothriuridae

458.72.B8

Buthidae

458.72.C27

Caraboctonidae

458.72.C4

Chactidae

458.72.C45

Chaerilidae

458.72.D5

Diplocentridae

458.72.E88

Euscorpiidae

458.72.H45

Hemiscorpiidae

458.72.H48

Heteroscorpionidae

458.72.H67

Hormuridae

(458.72.I75)

Ischnuridae

see QL458.72.H45

458.72.I95

Iuridae

458.72.M52

Microcharmidae

458.72.P75

Pseudochactidae

458.72.S3

Scorpionidae

458.72.S85

Superstitioniidae

458.72.T75

Troglotaoycidae

(458.72.U75)

Urodacidae

see QL458.72.S3

458.72.V4

Vaejoividae

Solpugida (Solifugae; Sun spiders; Wind scorpions)

458.8

General works

458.82.A-Z

By family, A-Z

458.82.A4

Ammotrechidae

458.82.C4

Ceromidae

458.82.D3

Daesiidae

458.82.E7

Eremobatidae

458.82.G3

Galeodidae

458.82.H4

Hexisopodidae

458.82.K3

Karschiidae

458.82.M4

Melanoblossiidae

458.82.R4

Rhagodidae

458.82.S6

Solpugidae

Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions -- Continued

Uropygi (Thelyphonida; Whip scorpions)

458.85

General works

458.87.A-Z

By family, A-Z

(458.87.S3)

Schizomidae

see QL458.692.H82

458.87.T4

Thelyphonidae

459

Anatomy and morphology

459.2

Physiology

Insects

Cf. SB818+ Economic entomology

461

Periodicals, societies, congresses, serial publications

462

Collected works (nonserial)

462.3

Dictionaries and encyclopedias

462.4

Terminology, notation, abbreviations

462.5

History

463

General works, treatises, and textbooks

464

Field and laboratory manuals

465

Collection and preservation

466

Pictorial works and atlases

467

Popular works

467.2

Juvenile works

467.8

Rare and endangered species

467.9

Extinct insects

468

Classification. Nomenclature

468.2

Catalogs and collections

468.4

Entomology as a profession. Vocational guidance

468.5

Study and teaching. Research

468.7

Evolution. Phylogeny. Speciation

468.8

Poisonous insects. Dangerous insects

Geographical distribution

For geographical distribution of systematic divisions, see
QL503+

469

General works

Physiographic divisions

Aquatic

472

General works

472.3

Marine

472.7

Urban

Topographic divisions

North America

473

General works

United States

474

General works

Invertebrates

Arthropoda

Insects

Geographical distribution

Topographic divisions

North America

United States -- Continued

475.A-Z By region or state, A-Z

476 Canada

Latin America

476.5 General works

477 Mexico

478 Central America (Table Q3)

479 West Indies (Table Q3)

481 South America (Table Q3)

Atlantic islands

481.4 General works

481.5 By individual island or group of islands, A-Z

482 Europe (Table Q3)

483 Asia (Table Q3)

485 Africa (Table Q3)

Indian Ocean islands

486 General works

486.3.A-Z By individual island or group of islands, A-Z

487 Australia

487.5 New Zealand

489 Pacific islands (Table Q3)

491 Arctic regions

491.5 Antarctica

491.6 Tropics

492.5 Immunology

493 Genetics

493.5 Molecular entomology

494 Anatomy and morphology

494.5 Metamorphosis

494.8 Cytology

Physiology

495 General works

495.5 Development

496 Behavior. Social life. Instinct

496.12 Parasitism

Including parasitic insects and parasitoids

496.15 Population dynamics

496.2 Migration

496.4 Ecology

496.5 Sound and sound production

496.7 Flight

Invertebrates

Arthropoda

Insects -- Continued

497

Miscellany and curiosa

Apterygota

501

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL503+

502

General works

502.1

North America (United States and Canada) (Table Q3)

502.2

Mexico, Central America, and West Indies (Table Q3)

502.3

South America (Table Q3)

502.4

Europe (Table Q3)

502.5

Asia (Table Q3)

502.6

Africa (Table Q3)

502.7

Australia

502.75

New Zealand

502.8

Pacific islands (Table Q3)

502.9

Arctic regions

502.95

Antarctica

502.96

Tropics

Systematic divisions

Collembola

503.A1

General works

503.A3-Z

By family, A-Z

503.A3

Actaletidae

503.D5

Dicyrtomidae

503.E5

Entomobryidae

503.H9

Hypogastruridae

503.I8

Isotomidae

503.N4

Neelidae

503.O5

Oncopoduridae

503.O56

Onychiuridae

503.P6

Poduridae

503.S6

Sminthuridae

503.T6

Tomoceridae

Entotrophi (Diplura)

503.4.A1

General works

503.4.A3-Z

By family, A-Z

503.4.C3

Campodeidae

503.4.J3

Japygidae

503.4.P7

Projapygidae

Protura

503.6.A1

General works

503.6.A3-Z

By family, A-Z

- Invertebrates
 - Arthropoda
 - Insects
 - Apterygota
 - Systematic divisions
 - Protura
 - By family, A-Z -- Continued
 - 503.6.A3 Acerentomidae
 - 503.6.E6 Eosentomidae
 - 503.6.P7 Protentomidae
 - Archaeognatha
 - 503.7.A1 General works
 - 503.7.A3-Z By family, A-Z
 - 503.7.M32 Machilidae
 - 503.7.M44 Meinertellidae
 - Thysanura
 - 503.8.A1 General works
 - 503.8.A3-Z By family, A-Z
 - 503.8.L4 Lepismatidae
 - (503.8.M3) Machilidae
 - see QL503.7.M32
 - (503.8.M4) Meinertellidae
 - see QL503.7.M44
 - 503.8.N5 Nicoletidae
 - 504 Anatomy and morphology
 - 504.2 Physiology
 - Ephemeroptera (Plectoptera; mayflies)
 - 505 General works, treatises, and textbooks
 - Geographical distribution
 - For geographical distribution of systematic divisions
 - see QL505.3.A+
- 505.1 General works
- 505.2 North America (United States and Canada) (Table Q3)
- 505.22 Mexico, Central America, and West Indies (Table Q3)
- 505.23 South America (Table Q3)
- 505.24 Europe (Table Q3)
- 505.25 Asia (Table Q3)
- 505.26 Africa (Table Q3)
- 505.27 Australasia and Indo-Pacific islands (Table Q3)
- 505.28 Polar regions
- 505.29 Tropics
- 505.3.A-Z Systematic divisions. By family, A-Z
 - 505.3.B33 Ametropodidae see QL505.3.S5
 - 505.3.B38 Baetidae
 - 505.3.C3 Baetiscidae
 - Caenidae

Invertebrates

Arthropoda

Insects

Ephemeroptera (Plecoptera; mayflies)

Systematic divisions. By family, A-Z -- Continued

505.3.E64

Ephemerellidae

505.3.E65

Ephemeridae

505.3.H4

Heptageniidae

505.3.L4

Leptophlebiidae

505.3.O4

Oligoneuridae

505.3.P3

Palingeniidae

505.3.P64

Polymitarcidae

505.3.P68

Potamanthidae

505.3.P76

Prosopistomatidae

505.3.S5

Siphonuridae

505.4

Anatomy and morphology

505.42

Physiology

Blattaria (Cockroaches)

505.5

General works

Geographical distribution

For geographical distribution of systematic divisions

see QL505.7.A+

505.51

General works

505.6

North America (United States and Canada) (Table Q3)

505.62

Mexico, Central America, and West Indies (Table Q3)

505.63

South America (Table Q3)

505.64

Europe (Table Q3)

505.65

Asia (Table Q3)

505.66

Africa (Table Q3)

505.67

Australasia and Indo-Pacific islands (Table Q3)

505.68

Polar regions

505.69

Tropics

505.7.A-Z

Systematic divisions. By family, A-Z

505.7.A73

Archiblattidae

505.7.A74

Areolariidae

505.7.A87

Attaphilidae

505.7.A88

Atticolidae

505.7.B4

Blaberidae

505.7.B48

Blattellidae

505.7.B485

Blattidae

505.7.C4

Chorisoneuridae

505.7.C6

Corydiidae

505.7.C7

Cryptocercidae

505.7.D5

Diplopteridae

505.7.E3

Ectobiidae

505.7.E7

Epilampridae

Invertebrates

Arthropoda

Insects

Blattaria (Cockroaches)

Systematic divisions. By family, A-Z -- Continued

505.7.E9

Euthyrrhaphidae

505.7.H6

Homoeogamiidae

505.7.L3

Latindiidae

505.7.N62

Nocticolidae

505.7.N68

Nothoblattidae

505.7.N9

Nyctiboridae

505.7.O8

Ouloterygidae

505.7.O9

Oxyhaloidae

505.7.P33

Panchloridae

505.7.P34

Panesthiidae

505.7.P4

Perisphaeriidae

505.7.P45

Phyllodromiidae

505.7.P6

Polyphagidae

505.8

Anatomy and morphology

505.82

Physiology

Mantodea (Mantids)

505.83

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL505.9.A+

505.84

General works

505.85

North America (United States and Canada) (Table Q3)

505.855

Mexico, Central America, and West Indies (Table Q3)

505.86

South America (Table Q3)

505.865

Europe (Table Q3)

505.87

Asia (Table Q3)

505.875

Africa (Table Q3)

505.88

Australasia and Indo-Pacific Islands (Table Q3)

505.885

Polar regions

505.89

Tropics

505.9.A-Z

Systematic divisions. By family, A-Z

505.9.H94

Hymenopodidae

505.9.M35

Mantidae

505.95

Anatomy

505.96

Physiology

Orthoptera (Grasshoppers; locusts; etc.)

506

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL508.A+

507

General works

Invertebrates

Arthropoda

Insects

Orthoptera (Grasshoppers; locusts; etc.)

Geographical distribution -- Continued

- 507.1 North America (United States and Canada) (Table Q3)
- 507.2 Mexico, Central America, and West Indies (Table Q3)
- 507.3 South America (Table Q3)
- 507.4 Europe (Table Q3)
- 507.5 Asia (Table Q3)
- 507.6 Africa (Table Q3)
- 507.7 Australia
- 507.75 New Zealand
- 507.8 Pacific islands (Table Q3)
- 507.9 Arctic regions
- 507.95 Antarctica
- 507.96 Tropics
- 508.A-Z Systematic divisions. By family, A-Z
- 508.A2 Acrididae (Grasshoppers)
- 508.A56 Anostomatidae
- Bacillidae see QL509.7.P58
- Bacteriidae see QL509.7.P53
- Bacunculidae see QL509.7.P58
- Blattidae see QL505.5+
- 508.C9 Cylindrachetidae
- 508.E5 Eneopteridae
- 508.G7 Gryllacrididae
- 508.G8 Gryllidae (Crickets)
- (508.G86) Grylloblattidae
see QL509.3
- 508.G87 Gryllotalpidae (Mole crickets)
- 508.L45 Lentulidae
- (508.M4) Locustidae see QL508.A2
- Mantidae
see QL505.9.M35
- 508.M6 Mogoplistidae
- 508.M9 Myrmecophilidae
- 508.O4 Oecanthidae
- 508.P34 Pamphagidae
- 508.P53 Phasmatidae see QL509.7.P53
- Phasmodidae
- Phylliidae see QL509.7.P58
- 508.P6 Pneumoridae
- 508.P7 Proscopiidae
- 508.P97 Pyrgomorphidae
- 508.R45 Rhaphidophoridae

Invertebrates

Arthropoda

Insects

Orthoptera (Grasshoppers; locusts; etc.)

Systematic divisions. By family, A-Z -- Continued

508.R65

Romaleidae (Lubber grasshoppers)

508.S7

Stenopelmatidae (Jerusalem crickets)

508.T38

Tetrigidae (Pigmy grasshoppers)

508.T4

Tettigoniidae (Katydid; Longhorn grasshoppers)

508.T45

Thericleidae

Timematidae see QL509.7.P58

508.T73

Tridactylidae (Pigmy mole crickets)

508.T74

Trigonidiidae

509

Anatomy and morphology

509.2

Physiology

509.3

Grylloblattodea

Includes one family, Grylloblattidae

Phasmatoptera (Phasmida; Stick insects)

509.5

General works

Geographical distribution

For geographical distribution of systematic divisions

see QL509.7.A+

509.55

General works

509.6

North America (United States and Canada) (Table Q3)

509.62

Mexico, Central America, and West Indies (Table Q3)

509.63

South America (Table Q3)

509.64

Europe (Table Q3)

509.65

Asia (Table Q3)

509.66

Africa (Table Q3)

509.67

Australasia and Indo-Pacific islands (Table Q3)

509.68

Polar regions

509.69

Tropics

509.7.A-Z

Systematic divisions, A-Z

509.7.P53

Phasmatidae

509.7.P58

Phylliidae

Dermaptera (Earwigs)

510

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL510.3.A+

510.15

General works

510.2

North America (United States and Canada) (Table Q3)

510.22

Mexico, Central America, and West Indies (Table Q3)

510.23

South America (Table Q3)

510.24

Europe (Table Q3)

Invertebrates

Arthropoda

Insects

Dermaptera (Earwigs)

Geographical distribution -- Continued

510.25

Asia (Table Q3)

510.26

Africa (Table Q3)

510.27

Australasia and Indo-Pacific islands (Table Q3)

510.28

Polar regions

510.29

Tropics

510.3.A-Z

Systematic divisions. By family, A-Z

510.3.A4

Allostethidae

510.3.A5

Anataeliidae

510.3.A52

Ancistrogastridae

510.3.A54

Anechuridae

510.3.A6

Apachyidae

510.3.A7

Arixeniidae

510.3.B7

Brachylabidae

510.3.C37

Carcinophoridae

510.3.C43

Cheliduridae

510.3.C48

Chelisochidae

510.3.D5

Diaperasticidae

510.3.D56

Diplatyidae

510.3.E3

Echinosomatidae

510.3.E8

Esphalmenidae

510.3.E9

Eudorniidae

510.3.F6

Forficulidae

510.3.H4

Hemimeridae

510.3.K3

Karschiellidae

510.3.L33

Labiduridae

510.3.L35

Labiidae

510.3.N46

Neolobophoridae

510.3.N48

Nesogastridae

510.3.O6

Opisthocosmiidae

510.3.P3

Parisolabidae

510.3.P4

Pericomidae

510.3.P5

Platylabiidae

510.3.P8

Psalididae

510.3.P94

Pygidicranidae

510.3.P97

Pyragridae

510.3.S6

Sparattidae

510.3.S66

Spongiphoridae

510.3.S8

Strongylopsalididae

510.3.V3

Vandicidae

510.4

Anatomy and morphology

510.42

Physiology

Neuroptera

Invertebrates

Arthropoda

Insects

Neuroptera -- Continued

- 511 General works, treatises, and textbooks
Geographical distribution
For geographical distribution of systematic divisions
see QL513.A+
- 512 General works
- 512.1 North America (United States and Canada) (Table Q3)
- 512.2 Mexico, Central America, and West Indies (Table Q3)
- 512.3 South America (Table Q3)
- 512.4 Europe (Table Q3)
- 512.5 Asia (Table Q3)
- 512.6 Africa (Table Q3)
- 512.7 Australia
- 512.75 New Zealand
- 512.8 Pacific islands (Table Q3)
- 512.9 Arctic regions
- 512.95 Antarctica
- 512.96 Tropics
- 513.A-Z Systematic divisions. By family, A-Z
- 513.A6 Aporhysidae
- 513.A7 Ascalaphidae (Owlflies)
- 513.B4 Berothidae (Beaded lacewings)
- 513.C5 Chrysopidae (Lacewings)
- 513.C65 Coniopterygidae (Dusty-wings)
- (513.C7) Corydalidae (Dobsonflies)
see QL514.7.C67
- 513.D5 Dilaridae (Pleasing lacewings)
Embiidae see QL539+
Ephemeroptera see QL505+
- 513.H5 Hemerobiidae (Brown lacewings)
- 513.I5 Inoceliidae
Isoptera see QL529+
- 513.I8 Ithonidae
- 513.M3 Mantispidae (Mantidflies)
- 513.M86 Myiodactylidae
- 513.M9 Myrmeleontidae (Antlions)
- 513.N4 Nemopteridae
- 513.N9 Nymphidae
Odonata see QL520+
- 513.O8 Osmylidae
Planipennia see QL511+
Plecoptera see QL530+
- 513.P6 Polystoechotidae (Giant lacewings)

Invertebrates

Arthropoda

Insects

Neuroptera

Systematic divisions. By family, A-Z -- Continued

Psocidae see QL515+

513.P8
(513.R3)

Psychopsidae

Raphidiidae (Snakeflies)

see QL514.9.R35

(513.S6)

Sialidae (Alderflies)

see QL514.7.S52

513.S65

Sisyridae (Spongillaflyies)

513.S8

Stilbopterygidae

513.S9

Sympherobiidae

Termitidae see QL529+

513.T7

Trichomatidae

514

Anatomy and morphology

514.2

Physiology

Megaloptera

514.4

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL514.7.A+

514.5

General works

514.6

North America (United States and Canada) (Table
Q3)

514.62

Mexico, Central America, and West Indies (Table Q3)

514.63

South America (Table Q3)

514.64

Europe (Table Q3)

514.65

Asia (Table Q3)

514.66

Africa (Table Q3)

514.67

Australasia and Indo-Pacific islands (Table Q3)

514.68

Polar regions

514.69

Tropics

514.7.A-Z

Systematic divisions. By family, A-Z

514.7.C67

Corydalidae (Dobsonflies)

514.7.S52

Sialidae (Alderflies)

514.8

Anatomy and morphology

514.82

Physiology

Raphidioptera

514.86

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL514.9.A+

514.88

General works

514.8815

North America (United States and Canada) (Table
Q3)

Invertebrates

Arthropoda

Insects

Raphidioptera

Geographical distribution -- Continued

- 514.882 Mexico, Central America, and West Indies (Table Q3)
- 514.883 South America (Table Q3)
- 514.884 Europe (Table Q3)
- 514.885 Asia (Table Q3)
- 514.886 Africa (Table Q3)
- 514.887 Australasia and Indo-Pacific islands (Table Q3)
- 514.888 Polar regions
- 514.889 Tropics
- 514.9.A-Z Systematic divisions. By family, A-Z
- 514.9.R35 Raphidiidae (Snakeflies)
- 514.95 Anatomy and morphology
- 514.96 Physiology

Psocoptera (Corrodentia)

- 515 General works
- 515.2.A-Z Systematic divisions, A-Z
- 515.2.P4 Peripsocidae
- 515.2.P73 Pseudocaecillidae

515.5

Zoraptera

Trichoptera (Caddisflies)

- 516 General works, treatises, and textbooks
- Geographical distribution
 - For geographical distribution of systematic divisions
see QL518.A+
- 517 General works
- 517.1 North America (United States and Canada) (Table Q3)
- 517.2 Mexico, Central America, and West Indies (Table Q3)
- 517.3 South America (Table Q3)
- 517.4 Europe (Table Q3)
- 517.5 Asia (Table Q3)
- 517.6 Africa (Table Q3)
- 517.7 Australia
- 517.75 New Zealand
- 517.8 Pacific islands (Table Q3)
- 517.9 Arctic regions
- 517.95 Antarctica
- 517.96 Tropics
- 518.A-Z Systematic divisions. By family, A-Z
- 518.A55 Anomalopsychidae
- 518.B4 Beraeidae
- 518.B7 Brachycentridae
- 518.C3 Calamoceratidae

Invertebrates

Arthropoda

Insects

Trichoptera (Caddisflies)

Systematic divisions. By family, A-Z -- Continued

- 518.G6 Goeridae
 518.H4 Helicopsychidae
 518.H94 Hydropsychidae
 518.H95 Hydroptilidae
 518.L48 Leptoceridae
 518.L5 Limnephilidae
 518.M6 Molannidae
 518.O4 Odontoceridae
 518.P45 Philopotamidae
 518.P47 Phryganeidae
 518.P6 Polycentropodidae
 518.P8 Psychomyiidae
 518.R4 Rhyacophilidae
 518.S4 Sericostomatidae
 518.X5 Xiphocentronidae
 519 Anatomy and morphology
 519.2 Physiology
- Odonata (Dragonflies, etc.)
- 520 General works, treatises, and textbooks
 Geographical distribution
 For geographical distribution of systematic divisions
 see QL520.3.A+
- 520.15 General works
 520.2 North America (United States and Canada) (Table Q3)
 520.22 Mexico, Central America, and West Indies (Table Q3)
 520.23 South America (Table Q3)
 520.24 Europe (Table Q3)
 520.25 Asia (Table Q3)
 520.26 Africa (Table Q3)
 520.27 Australasia and Indo-Pacific islands (Table Q3)
 520.28 Polar regions
 520.29 Tropics
- 520.3.A-Z Systematic divisions. By family, A-Z
 520.3.A4 Aeshnidae (Darners)
 520.3.A5 Agrionidae
 520.3.A6 Amphipterygidae
 520.3.C3 Calopterygidae
 520.3.C4 Chlorocyphidae
 520.3.C64 Coenagrionidae (Narrow-winged damselflies)
 520.3.C67 Cordulegastridae (Biddies)
 520.3.C68 Corduliidae (Green-eyed skimmers)

Invertebrates

Arthropoda

Insects

Odonata (Dragonflies, etc.)

Systematic divisions. By family, A-Z -- Continued

- 520.3.E6 Epallagidae
- 520.3.E65 Epiophlebiidae
- 520.3.G6 Gomphidae (Clubtails)
- 520.3.H44 Heliocharitidae
- 520.3.H45 Hemiphlebiidae
- 520.3.L45 Lestidae (Spread-winged damselflies)
- 520.3.L46 Lestoideidae
- 520.3.L6 Libellulidae (Skimmers)
- 520.3.M4 Megapodagrionidae
- 520.3.P4 Petaluridae (Graybacks)
- 520.3.P53 Platycnemididae
- 520.3.P58 Platystictidae
- 520.3.P6 Polythoridae
- 520.3.P7 Protoneuridae
- 520.3.P8 Pseudostigmatidae
- 520.3.S9 Synlestidae

520.4

Anatomy and morphology

520.42

Physiology

Hemiptera (Heteroptera; bugs)

521

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL523.A+

522

General works

522.1

North America (United States and Canada) (Table Q3)

522.2

Mexico, Central America, and West Indies (Table Q3)

522.3

South America (Table Q3)

522.4

Europe (Table Q3)

522.5

Asia (Table Q3)

522.6

Africa (Table Q3)

522.7

Australia

522.75

New Zealand

522.8

Pacific islands (Table Q3)

522.9

Arctic regions

522.95

Antarctica

522.96

Tropics

523.A-Z

Systematic divisions. By family, A-Z

523.A14

Acanthosomatidae

523.A35

Aepophilidae

523.A4

Alydidae

523.A5

Anthocoridae (Flowerbugs)

Invertebrates

Arthropoda

Insects

Hemiptera (Heteroptera; bugs)

Systematic divisions. By family, A-Z -- Continued

| | |
|---------|----------------------------------|
| 523.A7 | Aradidae (Flatbugs) |
| 523.B4 | Belostomatidae (Giant waterbugs) |
| 523.B45 | Berytidae |
| | Capsidae see QL523.M5 |
| 523.C6 | Cimicidae (Bedbugs, etc.) |
| 523.C64 | Colobothristidae |
| 523.C67 | Coreidae |
| 523.C7 | Corimelaenidae |
| 523.C75 | Corixidae (Water boatmen) |
| 523.C9 | Cydnidae (Burrower bugs) |
| 523.D5 | Dipsocoridae |
| 523.D74 | Drepanosiphidae |
| 523.D9 | Dysodiidae |
| 523.E65 | Enicocephalidae |
| 523.G4 | Gerridae (Water striders) |
| 523.H4 | Hebridae |
| 523.H44 | Helotrephidae |
| | Henicocephalidae see QL523.E65 |
| | Heteroptera see QL521+ |
| | Homoptera see QL525+ |
| 523.H93 | Hydrometridae |
| 523.H96 | Hyocephalidae |
| 523.I83 | Isodermidae |
| 523.I85 | Isometopidae |
| 523.J6 | Joppeicidae |
| 523.L45 | Leotichidae |
| 523.L46 | Leptopodidae |
| 523.L9 | Lygaeidae |
| 523.M3 | Macroveliidae |
| 523.M4 | Mesoveliidae |
| 523.M47 | Microphysidae |
| 523.M5 | Miridae (Plantbugs) |
| 523.N3 | Nabidae (Damsel bugs) |
| 523.N4 | Naucoridae (Creeping waterbugs) |
| 523.N46 | Neididae |
| 523.N5 | Nipidae (Water scorpions) |
| 523.N53 | Nerthridae |
| 523.N6 | Notonectidae (Back swimmers) |
| 523.O3 | Ochteridae |
| 523.P5 | Pentatomidae (Stinkbugs) |
| 523.P53 | Phymatidae (Ambushbugs) |
| 523.P55 | Piesmididae |

Invertebrates

Arthropoda

Insects

Hemiptera (Heteroptera; bugs)

Systematic divisions. By family, A-Z -- Continued

- 523.P57 Plataspidae
 523.P576 Ploiariidae
 523.P62 Podopidae
 523.P64 Polytctenidae
 523.P9 Pyrrhocoridae
 523.R4 Reduviidae (Assassin bugs)
 523.R5 Rhopalidae
 523.S25 Saldidae (Shorebugs)
 523.S3 Schizopteridae
 523.S4 Scutelleridae
 523.T3 Tahitocoridae
 523.T4 Termatophylidae
 523.T43 Termitaphididae
 523.T48 Thaumastootheriidae
 523.T5 Tingidae (Lacebugs)
 523.V45 Veliidae
 523.V46 Velocipedidae
 524 Anatomy and morphology
 524.2 Physiology
- 525 Homoptera (Aphids; cicadas, etc.)
 General works, treatises, and textbooks
 Geographical distribution
 For geographical distribution of systematic divisions
 see QL527.A+
- 526 General works
 526.1 North America (United States and Canada) (Table Q3)
 526.2 Mexico, Central America, and West Indies (Table Q3)
 526.3 South America (Table Q3)
 526.4 Europe (Table Q3)
 526.5 Asia (Table Q3)
 526.6 Africa (Table Q3)
 526.7 Australia
 526.75 New Zealand
 526.8 Pacific islands (Table Q3)
 526.9 Arctic regions
 526.95 Antarctica
 526.96 Tropics
 527.A-Z Systematic divisions. By family, A-Z
 527.A2 Acanaloniidae
 527.A25 Achilidae
 527.A259 Achilixiidae

Invertebrates

Arthropoda

Insects

Homoptera (Aphids; cicadas, etc.)

Systematic divisions. By family, A-Z -- Continued

| | |
|----------|-----------------------------------|
| 527.A3 | Adelgidae |
| 527.A4 | Aethialoniidae |
| 527.A44 | Agallidae |
| | Aleurodidae see QL527.A5 |
| 527.A5 | Aleyrodidae (Whiteflies) |
| 527.A64 | Aphididae (Aphids or plant lice) |
| 527.A647 | Aphrophoridae |
| 527.A65 | Apiomorphidae |
| | Areopodidae see QL527.D44 |
| 527.A8 | Asterolecaniidae (Pit scales) |
| 527.B9 | Bythoscopidae |
| 527.C35 | Callaphididae |
| 527.C4 | Cercopidae (Spittlebugs) |
| 527.C43 | Cerococcidae |
| | Chermidae see QL527.P88 |
| 527.C49 | Cicadellidae (Leafhoppers) |
| 527.C5 | Cicadidae (Cicadas) |
| 527.C55 | Cixiidae |
| 527.C58 | Clastopteridae |
| 527.C6 | Coccidae (Soft scales) |
| 527.C62 | Coelostomidiidae |
| 527.C65 | Conchaspidae |
| 527.C9 | Cylindrococcidae |
| 527.D3 | Dactylopiidae (Cochineal insects) |
| 527.D44 | Delphacidae |
| 527.D47 | Derbidae |
| 527.D5 | Diaspididae (Armored scales) |
| 527.D53 | Dictyopharidae |
| 527.E73 | Eriococcidae |
| 527.E78 | Eriosomatidae |
| 527.E9 | Euacanthidae |
| 527.E97 | Eurybrachidae |
| 527.F4 | Flatidae |
| 527.F9 | Fulgoridae |
| | Gyponidae see QL527.C49 |
| 527.I8 | Issidae |
| | Jassidae see QL527.C49 |
| 527.K4 | Kermesidae |
| 527.K44 | Kerridae (Lac scales) |
| 527.K5 | Kinnaridae |
| 527.K6 | Koebeliidae |
| | Lacciferidae see QL527.K44 |

Invertebrates

Arthropoda

Insects

Homoptera (Aphids; cicadas, etc.)

Systematic divisions. By family, A-Z -- Continued

- (527.L4) Lecaniidae
see QL527.C6
- 527.L44 Ledridae
- 527.L6 Lophopidae
- 527.M3 Machaerotidae
- 527.M32 Macropsidae
- 527.M37 Margarodidae
- 527.M4 Meenoplidae
- 527.M45 Membracidae (Treehoppers)
- 527.N5 Monophlebidae see QL527.M37
- 527.N6 Nirvanidae
- 527.O7 Nogodinidae
- 527.P3 Ortheziidae (Ensign scales)
- 527.P4 Paropiidae
- 527.P44 Peloridiidae
- 527.P45 Penthimiidae
- 527.P53 Phenacoleachiidae
- 527.P56 Phylloxeridae
- 527.P6 Pleidae
- 527.P83 Pseudococcidae (Mealybugs)
- 527.P88 Psyllidae (Jumping plant lice)
- 527.P93 Putoidae
- 527.P96 Pythamidae
- 527.R5 Ricaniidae
- 527.S5 Signoretiidae
- 527.S8 Stenocotidae
- Tachardiidae see QL527.K44
- Tettigellidae see QL527.C49
- 527.T43 Tettigometridae
- 527.T5 Thaumastoscopidae
- 527.T6 Tomaspidae
- 527.T7 Tropiduchidae
- 527.U4 Ulopidae
- 528 Anatomy and morphology
- 528.2 Physiology
- 529 Isoptera (Termites)
- 529 General works, treatises, and textbooks
- 529 Geographical distribution
- For geographical distribution of systematic divisions
see QL529.3.A+
- 529.15 General works

Invertebrates

Arthropoda

Insects

Isoptera (Termites)

Geographical distribution -- Continued

- 529.2 North America (United States and Canada) (Table Q3)
- 529.22 Mexico, Central America, and West Indies (Table Q3)
- 529.23 South America (Table Q3)
- 529.24 Europe (Table Q3)
- 529.25 Asia (Table Q3)
- 529.26 Africa (Table Q3)
- 529.27 Australasia and Indo-Pacific islands (Table Q3)
- 529.28 Polar regions
- 529.29 Tropics
- 529.3.A-Z Systematic divisions. By family, A-Z
- 529.3.H6 Hodotermitidae
- 529.3.K35 Kalotermitidae
- 529.3.M3 Mastotermitidae
- 529.3.R4 Rhinotermitidae
- 529.3.S47 Serritermitidae
- 529.3.T4 Termitidae
- 529.3.T5 Termopsidae
- 529.4 Anatomy and morphology
- 529.42 Physiology
- Plecoptera (Stoneflies)
- 530 General works, treatises, and textbooks
- Geographical distribution
- For geographical distribution of systematic divisions
see QL530.3.A+
- 530.15 General works
- 530.2 North America (United States and Canada) (Table Q3)
- 530.22 Mexico, Central America, and West Indies (Table Q3)
- 530.23 South America (Table Q3)
- 530.24 Europe (Table Q3)
- 530.25 Asia (Table Q3)
- 530.26 Africa (Table Q3)
- 530.27 Australasia and Indo-Pacific islands (Table Q3)
- 530.28 Polar regions
- 530.29 Tropics
- 530.3.A-Z Systematic divisions. By family, A-Z
- 530.3.A9 Austroperlidae
- 530.3.C3 Capniidae
- 530.3.C45 Chloroperlidae
- 530.3.E9 Eustheniidae
- 530.3.L47 Leptoperlidae

Invertebrates

Arthropoda

Insects

Plecoptera (Stoneflies)

Systematic divisions. By family, A-Z -- Continued

530.3.L49

Leuctridae (Rolled-wing stoneflies)

530.3.N4

Nemouridae

530.3.P44

Peltoperlidae

530.3.P47

Perlidae

530.3.P48

Perlodidae

530.3.P8

Pteronarcyidae

530.3.T3

Taeniopterygidae

530.4

Anatomy and morphology

530.42

Physiology

Diptera (Flies)

531

General works, treatises, and textbooks

532

Pictorial works and atlases

533

Popular works

533.2

Juvenile works

534

Classification

534.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions

see QL536+

535

General works

535.1

North America (United States and Canada) (Table Q3)

535.2

Mexico, Central America, and West Indies (Table Q3)

535.3

South America (Table Q3)

535.4

Europe (Table Q3)

535.5

Asia (Table Q3)

535.6

Africa (Table Q3)

535.7

Australia

535.75

New Zealand

535.8

Pacific islands (Table Q3)

535.9

Arctic regions

535.95

Antarctica

535.96

Tropics

Systematic divisions. By family

536

Culicidae (Mosquitoes)

537.A-Z

Other families, A-Z

537.A3

Acroceridae

537.A4

Agromyzidae (Leafminerflies)

537.A45

Allactoneuridae

537.A5

Anthomyiidae

537.A53

Anthomyzidae

537.A6

Apioceridae

Invertebrates

Arthropoda

Insects

Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

| | |
|----------|---|
| 537.A85 | Asilidae (Robberflies) |
| 537.A88 | Astiidae |
| 537.A9 | Aulacigastridae |
| 537.B5 | Bibionidae (Marchflies) |
| 537.B56 | Blepharoceridae |
| 537.B64 | Bolitophilidae |
| 537.B65 | Bombyliidae (Beeflies) |
| 537.B7 | Braulidae |
| 537.C24 | Calliphoridae (Blowflies) |
| 537.C25 | Canaceidae |
| 537.C26 | Canthyloscelidae |
| 537.C27 | Carnidae |
| 537.C33 | Cecidomyiidae (Gall midges) |
| 537.C35 | Celyphidae |
| 537.C37 | Ceratopogonidae (Biting midges) |
| 537.C376 | Ceroplatidae |
| 537.C4 | Chamaemyiidae |
| 537.C43 | Chaoboridae (Phantom midges) |
| 537.C455 | Chiromyzidae |
| 537.C456 | Chironomidae (Tendipedidae; midges) |
| 537.C46 | Chloropidae |
| 537.C49 | Chyromyiidae |
| 537.C5 | Clusiidae |
| 537.C56 | Cnemospathidae |
| 537.C634 | Coelopidae |
| 537.C636 | Coenomyiidae |
| 537.C65 | Conopidae |
| 537.C673 | Cordyluridae |
| | Corethridae see QL537.C43 |
| 537.C69 | Corynoscelidae |
| 537.C7 | Cryptochaetidae |
| | Culicidae see QL536 |
| 537.C8 | Cuterebridae (Rabbit bots; rodent bots) |
| 537.C9 | Cylindrotomidae |
| 537.D47 | Deuterophlebiidae |
| 537.D48 | Dexiidae |
| 537.D52 | Diadocidiidae |
| 537.D53 | Diastatidae |
| 537.D56 | Diopsidae |
| 537.D58 | Ditomyiidae |
| 537.D59 | Dixidae |

Invertebrates

Arthropoda

Insects

Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

| | |
|---------|------------------------------------|
| 537.D6 | Dolichopodidae (Long-legged flies) |
| 537.D76 | Drosophilidae (Vinegarflies) |
| 537.D79 | Dryomyzidae |
| 537.E4 | Empididae (Danceflies) |
| 537.E7 | Ephydriidae |
| | Euribiidae see QL537.T42 |
| 537.G3 | Gasterophilidae (Horse bots) |
| 537.G4 | Glossinidae |
| | Heleidae see QL537.C37 |
| 537.H44 | Helomyzidae |
| 537.H48 | Hesperinidae |
| 537.H54 | Hilarimorphidae |
| 537.H57 | Hippoboscidae (Louseflies) |
| | Hyperoscelididae see QL537.C26 |
| | Hypodermatidae see QL537.O4 |
| 537.I76 | Ironomyiidae |
| 537.K47 | Keroplastidae |
| 537.L3 | Lauxaniidae |
| 537.L5 | Limoniidae |
| 537.L6 | Lonchaeidae |
| 537.L63 | Lonchopteridae (Musidoridae) |
| 537.L9 | Lygistorrhinidae |
| 537.M3 | Macroceridae (Euphrosynidae) |
| 537.M35 | Manotidae |
| 537.M4 | Megamerinidae |
| | Metopiidae see QL537.S25 |
| 537.M43 | Micropezidae |
| 537.M5 | Milichiidae |
| 537.M6 | Mormotomyiidae |
| 537.M8 | Muscidae (Houseflies, etc.) |
| 537.M9 | Mycetobiidae |
| 537.M92 | Mycetophilidae (Fungivoridae) |
| 537.M93 | Mydidae |
| 537.M98 | Mythicomyiidae |
| 537.N44 | Nemestrinidae |
| 537.N46 | Neottiophilidae |
| 537.N47 | Neriidae |
| 537.N6 | Nothybidae |
| 537.N9 | Nycteribiidae |
| 537.N94 | Nymphomyiidae |
| 537.O3 | Odiniidae |

Invertebrates

Arthropoda

Insects

Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

| | |
|----------|--|
| 537.O4 | Oestridae (Botflies; warbleflies) |
| 537.O7 | Opomyzidae |
| 537.O8 | Otitidae |
| 537.P3 | Pachyneuridae |
| 537.P34 | Pallopteridae |
| 537.P35 | Pantophthalmidae |
| 537.P4 | Perisclidae |
| 537.P42 | Petauristidae |
| 537.P44 | Phasiidae |
| 537.P46 | Phoridae (Humpbacked flies) |
| 537.P49 | Phytalmiidae |
| 537.P56 | Piophilidae (Skipperflies) |
| 537.P57 | Pipunculidae (Dorylidae; bigheadedflies) |
| 537.P63 | Platypozidae (Clythiidae) |
| 537.P65 | Platystomatidae |
| 537.P83 | Psilidae (Rust flies) |
| 537.P85 | Psychodidae (Mothflies) |
| 537.P87 | Pterocallidae |
| 537.P89 | Ptychopteridae (Liriopeidae) |
| 537.P97 | Pyrgotidae |
| 537.R4 | Rhagionidae (Snipeflies) |
| 537.R457 | Rhinophoridae |
| 537.R458 | Rhinoteridae |
| 537.R46 | Rhopalomeridae |
| 537.R5 | Richardiidae |
| 537.S25 | Sarcophagidae (Metopiidae; fleshflies) |
| 537.S32 | Scatopsidae |
| 537.S34 | Scenopinidae (Omphralidae) |
| 537.S35 | Sciadoceridae |
| 537.S357 | Sciaridae (Lycoriidae; fungus gnats) |
| 537.S365 | Sciomyzidae |
| 537.S367 | Sciophilidae |
| 537.S4 | Sepsidae |
| 537.S54 | Silvicolidae |
| 537.S55 | Simuliidae (Melusinidae; blackflies) |
| 537.S6 | Solvidae |
| 537.S7 | Sphaeroceridae |
| 537.S84 | Stratiomyidae (Soldier flies) |
| 537.S86 | Streblidae |
| 537.S87 | Strongylophthalmyiidae |
| 537.S88 | Synneuridae |

Invertebrates

Arthropoda

Insects

Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

- 537.S9 Syrphidae (Flowerflies; hoverflies)
- 537.T25 Tabanidae (Deerflies)
- 537.T28 Tachinidae (Larvaevoridae)
- 537.T3 Tachiniscidae
- 537.T35 Tanyderidae
- 537.T357 Tanypezidae
- 537.T42 Tephritidae
- 537.T447 Termitoxeniidae
- 537.T448 Tethinidae
- 537.T45 Thaumaleidae
- 537.T458 Thaumatoxenidae
- 537.T47 Therevidae
- 537.T49 Thyreophoridae
- 537.T6 Tipulidae (Craneflies)
- 537.T7 Trichoceridae (Winter craneflies)
- 537.T75 Trixoscelidae
- Trypetidae see QL537.T42
- Tylidae see QL537.M43
- 537.U4 Ulidiidae
- 537.X9 Xylophagidae (Erinnidae)
- 538 Anatomy and morphology
- 538.2 Physiology
- 539 Embioptera (Embiodea; web spinners)
- 539 General works, treatises, and textbooks
- Geographical distribution
- For geographical distribution of systematic divisions
see QL539.3.A+
- 539.15 General works
- 539.2 North America (United States and Canada) (Table Q3)
- 539.22 Mexico, Central America, and West Indies (Table Q3)
- 539.23 South America (Table Q3)
- 539.24 Europe (Table Q3)
- 539.25 Asia (Table Q3)
- 539.26 Africa (Table Q3)
- 539.27 Australasia and Indo-Pacific islands (Table Q3)
- 539.28 Polar regions
- 539.29 Tropics
- 539.3.A-Z Systematic divisions. By family, A-Z
- 539.3.A5 Anisembiidae
- 539.3.C4 Clothodidae

Invertebrates

Arthropoda

Insects

Embioptera (Embiodea; web spinners)

Systematic divisions. By family, A-Z -- Continued

539.3.E4

Embiidae

539.3.N6

Notoligotomidae

539.3.O44

Oligembiidae

539.3.O46

Oligotomidae

539.3.T4

Teratembidae

539.4

Anatomy and morphology

539.42

Physiology

Mallophaga (Chewing lice)

540

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL540.3.A+

540.15

General works

540.2

North America (United States and Canada) (Table Q3)

540.22

Mexico, Central America, and West Indies (Table Q3)

540.23

South America (Table Q3)

540.24

Europe (Table Q3)

540.25

Asia (Table Q3)

540.26

Africa (Table Q3)

540.27

Australasia and Indo-Pacific islands (Table Q3)

540.28

Polar regions

540.29

Tropics

540.3.A-Z

Systematic divisions. By family, A-Z

540.3.B6

Boopiidae

540.3.D3

Dasyonygidae

540.3.G9

Gyropidae

540.3.H4

Heptapsogastridae

540.3.L3

Laemobothridae

540.3.M4

Menoponidae

540.3.N4

Nesiotinidae

540.3.P4

Phlopterae

540.3.R5

Ricinidae

540.3.T7

Trichodectidae

540.3.T72

Trichophlopterae

540.3.T74

Trimenoponidae

540.4

Anatomy and morphology

540.42

Physiology

Lepidoptera (Butterflies; moths)

541

Periodicals, societies, congresses, serial publications

541.5

Dictionaries and encyclopedias

542

General works, treatises, and textbooks

Invertebrates

Arthropoda

Insects

Lepidoptera (Butterflies; moths) -- Continued

- 543 Pictorial works and atlases
- 544 Popular works
- 544.2 Juvenile works
- 544.6 Butterfly attracting
Including butterfly gardens and gardening
- 545 Classification
- 545.2 Catalogs and collections
- Geographical distribution
For geographical distribution of systematic divisions
see QL561.A+
- 546 General works
- North America
- 548 General works
- United States
- 549 General works
- 551.A-Z By region or state, A-Z
- 552 Canada
- 553 Mexico, Central America, and West Indies (Table Q3)
- 554 South America (Table Q3)
- 555 Europe (Table Q3)
- 556 Asia (Table Q3)
- 557 Africa (Table Q3)
- 557.5 Indian Ocean islands (Table Q3)
- 558 Australia
- 558.5 New Zealand
- 559 Pacific islands (Table Q3)
- 560 Arctic regions
- 560.5 Antarctica
- 560.6 Tropics
- 561.A-Z Systematic divisions. By family, A-Z
- 561.A25 Acraeidae
- 561.A254 Acrolepiidae
- 561.A256 Acrolophidae
- 561.A3 Adelidae
- Aegeriidae see QL561.S47
- 561.A4 Agaristidae
- 561.A46 Agonoxenidae
- 561.A48 Alucitidae
- 561.A5 Amathusiidae
- 561.A57 Amphitheridae
- Amydriidae see QL561.T55
- 561.A65 Anomologidae
- 561.A67 Anthelidae

Invertebrates

Arthropoda

Insects

Lepidoptera (Butterflies; moths)

Systematic divisions. By family, A-Z -- Continued

| | |
|----------|-----------------------------------|
| 561.A7 | Apoprogonidae |
| 561.A8 | Arctiidae (Tiger moths) |
| 561.A84 | Argyresthiidae |
| 561.A865 | Arrhenophandiae |
| 561.A88 | Ashinagidae |
| 561.A93 | Axiidae |
| 561.B4 | Blastobasidae |
| 561.B6 | Bombycidae (Silkworm moths) |
| 561.B68 | Brachodidae |
| 561.B7 | Brahmaeidae |
| 561.C24 | Callidulidae |
| 561.C3 | Carposinidae |
| 561.C35 | Castniidae |
| 561.C4 | Cecidosetidae |
| 561.C42 | Cercophanidae |
| 561.C44 | Charideidae |
| 561.C46 | Chlidanotidae |
| 561.C47 | Choreutidae |
| 561.C48 | Chrysopolomidae |
| 561.C5 | Citheroniidae (Royal moths) |
| 561.C57 | Cochylidae |
| 561.C58 | Coleophoridae (Casebearer moths) |
| 561.C59 | Cosmopterigidae |
| 561.C6 | Cossidae (Carpenterworm moths) |
| 561.C73 | Crambidae |
| 561.C8 | Ctenuchidae |
| 561.C9 | Cyclotornidae |
| 561.D25 | Dalceridae (Milkweed butterflies) |
| 561.D3 | Danaidae (Milkweed butterflies) |
| 561.D5 | Dipotidae |
| 561.D6 | Douglasiidae |
| 561.D7 | Drepanidae |
| 561.E4 | Elachistidae |
| 561.E5 | Endromidae |
| 561.E74 | Epermeniidae |
| 561.E75 | Epicopeiidae |
| 561.E754 | Epimartidae |
| 561.E757 | Epipaschiidae |
| 561.E758 | Epiplemidae |
| 561.E759 | Epipyropidae |
| 561.E8 | Eriocraniidae |
| 561.E85 | Ethmiidae |

Invertebrates

Arthropoda

Insects

Lepidoptera (Butterflies; moths)

Systematic divisions. By family, A-Z -- Continued

| | |
|----------|--|
| (561.E9) | Eucleidae
see QL561.L54 |
| 561.E94 | Eupterotidae |
| 561.G3 | Galleriidae (Wax moths) |
| 561.G4 | Gelechiidae |
| 561.G6 | Geometridae |
| 561.G65 | Glyphipterygidae |
| 561.G7 | Gracillariidae (Leafblotch miners) |
| 561.H42 | Heliconiidae |
| 561.H44 | Heliodinidae |
| 561.H448 | Heliozelidae (Shield bearers) |
| 561.H47 | Hepialidae |
| 561.H5 | Hesperiidae (Skippers) |
| 561.H53 | Heterogynidae |
| 561.H9 | Hyblaeidae |
| 561.H97 | Hyposmocomidae |
| 561.I45 | Immidae |
| 561.I5 | Incurvariidae |
| 561.L3 | Lasiocampidae (Tent-caterpillar moths) |
| 561.L37 | Lecithoceridae |
| 561.L4 | Lemoniidae |
| 561.L5 | Libytheidae |
| 561.L54 | Limacodidae (Slug caterpillar moths) |
| | Lithosiidae see QL561.A8 |
| 561.L8 | Lycaenidae |
| 561.L9 | Lymantriidae (Tussock moths) |
| 561.L95 | Lyonetiidae |
| 561.M4 | Megalopygidae (Flannel moths) |
| 561.M42 | Megathymidae (Skippers) |
| 561.M44 | Metachandidae |
| 561.M44 | Metachandidae |
| 561.M48 | Micropterygidae |
| 561.M5 | Mimallonidae |
| 561.M55 | Mnesarchaeidae |
| 561.M6 | Morphidae |
| 561.N38 | Neopseustidae |
| 561.N4 | Nepticulidae |
| 561.N7 | Noctuidae (Owlet moths; underwings) |
| 561.N74 | Nolidae |
| 561.N8 | Notodontidae |
| 561.N87 | Nyctemeridae |
| 561.N9 | Nymphalidae (Brushfooted butterflies) |

Invertebrates

Arthropoda

Insects

Lepidoptera (Butterflies; moths)

Systematic divisions. By family, A-Z -- Continued

| | |
|---------|--|
| 561.O26 | Ochsenheimeriidae |
| 561.O43 | Oecophoridae |
| | Oinophilidae see QL561.T55 |
| 561.O6 | Olethreutidae |
| 561.O7 | Opostegidae |
| | Orenodidae see QL561.A48 |
| 561.O9 | Oxychirotidae |
| 561.O93 | Oxytenididae |
| 561.P17 | Palaeoetidae |
| 561.P18 | Palaephatidae |
| 561.P2 | Papilionidae (Swallowtail butterflies) |
| | Phaloniidae see QL561.C57 |
| | Phycitidae see QL561.P9 |
| 561.P48 | Phyllocnistidae |
| 561.P5 | Pieridae |
| 561.P55 | Plutellidae (Diamondback moths) |
| 561.P57 | Prodoxidae (Yucca moths) |
| 561.P58 | Prototheoridae |
| 561.P6 | Psychidae (Bagworm moths) |
| 561.P8 | Pterophoridae (Plume moths) |
| 561.P85 | Pterothysanidae |
| 561.P9 | Pyralidae |
| 561.P96 | Pyromorphidae |
| 561.R3 | Ratardidae |
| 561.R53 | Ridiaschinidae |
| 561.R56 | Riodinidae |
| 561.S2 | Saturniidae (Giant silkworm moths) |
| 561.S3 | Satyridae |
| 561.S35 | Scythridae |
| 561.S44 | Sematuridae |
| 561.S47 | Sesiidae (Clearwing moths) |
| | Setomorphidae see QL561.T55 |
| 561.S7 | Sphingidae (Sphinx moths) |
| 561.S8 | Stenomidae |
| 561.S87 | Strepsimanidae |
| 561.T46 | Thyatiridae |
| 561.T48 | Thyrididae |
| 561.T55 | Tineidae (Clothes moths) |
| 561.T56 | Tineodidae |
| 561.T58 | Tischeriidae |
| 561.T8 | Tortricidae (Leaf-roller moths) |
| 561.U7 | Uraniidae |

Invertebrates

Arthropoda

Insects

Lepidoptera (Butterflies; moths)

Systematic divisions. By family, A-Z -- Continued

561.X9

Xylorictidae

561.Y7

Yponomeutidae (Ermine moths)

561.Z9

Zygaenidae (Leaf-skeletonizer moths)

562

Anatomy and morphology

562.2

Physiology

562.4

Behavior. Social life. Instinct

562.6

Ecology

Hymenoptera (Ants; bees; wasps; etc.)

Cf. SF521+ Bee culture

563

General works, treatises, and textbooks

564

Pictorial works and atlases

565

Popular works

565.2

Juvenile works

566

Classification

566.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions

see QL568.A+

567

General works

567.1

North America (United States and Canada) (Table Q3)

567.2

Mexico, Central America, and West Indies (Table Q3)

567.3

South America (Table Q3)

567.4

Europe (Table Q3)

567.5

Asia (Table Q3)

567.6

Africa (Table Q3)

567.7

Australia

567.75

New Zealand

567.8

Pacific islands (Table Q3)

567.9

Arctic regions

567.95

Antarctica

567.96

Tropics

568.A-Z

Systematic divisions. By family, A-Z

568.A17

Acorduleceridae

568.A23

Agaontidae (Fig wasps)

568.A24

Agriotypidae

568.A3

Alienidae

568.A34

Alysiidae

568.A344

Alyssonidae

568.A36

Ampulicidae

568.A38

Anacharitidae

568.A4

Andrenidae

Invertebrates

Arthropoda

Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions. By family, A-Z -- Continued

| | |
|----------|--|
| 568.A48 | Anthoboscidae |
| 568.A53 | Anthophoridae |
| 568.A55 | Aphelinidae |
| 568.A57 | Aphidiidae |
| 568.A6 | Apidae (Bumblebees; honeybees; stingless bees) |
| 568.A7 | Apterogynidae |
| 568.A77 | Argidae |
| 568.A8 | Aspiceridae |
| 568.A9 | Aulacidae |
| 568.B36 | Belytidae |
| | Bembicidae see QL568.S7 |
| 568.B4 | Bethylidae |
| 568.B5 | Blasticotomidae |
| 568.B8 | Braconidae |
| 568.B83 | Bradynobaenidae |
| 568.C373 | Cephidae (Stem sawflies) |
| 568.C375 | Ceraphronidae |
| 568.C377 | Cerceridae |
| 568.C4 | Chalcididae |
| 568.C44 | Charipidae |
| 568.C47 | Chrysididae (Cuckoo wasps) |
| 568.C5 | Cimbicidae |
| 568.C55 | Cleonymidae |
| 568.C56 | Cleptidae |
| 568.C6 | Colletidae |
| 568.C7 | Crabronidae |
| 568.C9 | Cynipidae (Gall wasps) |
| 568.D44 | Diapriidae |
| 568.D47 | Dimorphidae |
| 568.D5 | Diprionidae (Conifer sawflies) |
| 568.D7 | Dryinidae |
| 568.E4 | Elasmidae |
| 568.E5 | Embolemidae |
| 568.E6 | Encyrtidae |
| 568.E75 | Eucharididae |
| 568.E77 | Eucoilidae |
| 568.E8 | Eulophidae |
| 568.E84 | Eumenidae |
| 568.E845 | Eupelmidae |
| 568.E85 | Eurytomidae |
| 568.E9 | Evaniidae (Ensign wasps) |
| 568.F47 | Fideliidae |

Invertebrates

Arthropoda

Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions. By family, A-Z -- Continued

| | |
|------------|--------------------------------------|
| 568.F5 | Figitidae |
| 568.F7 | Formicidae (Ants) |
| 568.G3 | Gasteruptionidae |
| 568.G6 | Gorytidae |
| 568.H3 | Halictidae (Sweat bees) |
| 568.H4 | Heloridae |
| 568.I15 | Ibaliidae |
| 568.I2 | Ichneumonidae |
| 568.L3 | Larridae |
| 568.L47 | Leptofoenidae |
| 568.L49 | Leucospididae |
| 568.L56 | Liopteridae |
| (568.M3) | Masaridae |
| | see QL568.V5 |
| 568.M4 | Megachilidae (Leaf-cutting bees) |
| 568.M44 | Megalodontidae |
| 568.M45 | Megalyridae |
| (568.M456) | Meliponidae |
| | see QL568.A6 |
| 568.M46 | Melittidae |
| 568.M466 | Mellinidae |
| 568.M48 | Methocidae |
| 568.M55 | Miscogastridae |
| 568.M56 | Miscophidae |
| 568.M6 | Monomachidae |
| 568.M8 | Mutillidae (Velvet ants) |
| 568.M94 | Mymaridae (Fairflies) |
| 568.M944 | Mymarommatidae |
| 568.M97 | Myrmosidae |
| 568.N9 | Nyssonidae |
| 568.O25 | Oberthuerellidae |
| 568.O74 | Ormyridae |
| 568.O78 | Orussidae (Parasitic wood wasps) |
| | Oryssidae see QL568.O78 |
| 568.O8 | Oxaeidae |
| 568.O9 | Oxybelidae |
| 568.P3 | Pamphiliidae (Web-spinning sawflies) |
| 568.P43 | Pelecinidae |
| | Pemphredonidae see QL568.S7 |
| 568.P474 | Pergidae |
| 568.P475 | Perilampidae |
| 568.P5 | Philanthidae |

Invertebrates

Arthropoda

Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions. By family, A-Z -- Continued

- 568.P55 Platygastridae
 568.P58 Plumariidae
 568.P6 Pompilidae (Spider wasps)
 568.P9 Proctotrypidae
 568.P94 Pteromalidae
 568.P945 Pterostigmatidae
 568.R4 Rhopalosomatidae
 568.R6 Roproniidae
 568.S2 Sapygidae
 568.S3 Scelionidae
 568.S34 Sclerogibbidae
 568.S38 Scoliidae
 568.S5 Sierolomorphidae
 568.S57 Siricidae (Horntails)
 568.S7 Sphecidae
 568.S8 Stephanidae
 568.S85 Stizidae
 568.S96 Syntexidae
 568.T3 Tenthredinidae (Sawflies)
 568.T34 Tetracampidae
 568.T4 Thynnidae
 568.T5 Tiphidae
 568.T6 Torymidae
 568.T7 Trichogrammatidae
 568.T74 Trigonalidae
 568.T79 Trypoxylidae
 568.V3 Vanhorniidae
 568.V5 Vespidae (Hornets, etc.)
 568.X5 Xiphydriidae (Wood wasps)
 568.X7 Xyelidae
- 569 Anatomy and morphology
 569.2 Physiology
 569.4 Behavior. Social life. Instinct
- 570 Anoplura (Sucking lice)
 General works, treatises, and textbooks
 Geographical distribution
 For geographical distribution of systematic divisions
 see QL570.3.A+
- 570.15 General works
 570.2 North America (United States and Canada) (Table Q3)
 570.22 Mexico, Central America, and West Indies (Table Q3)

Invertebrates

Arthropoda

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Anoplura (Sucking lice)

Geographical distribution -- Continued

- 570.23 South America (Table Q3)
- 570.24 Europe (Table Q3)
- 570.25 Asia (Table Q3)
- 570.26 Africa (Table Q3)
- 570.27 Australasia and Indo-Pacific islands (Table Q3)
- 570.28 Polar regions (Table Q3)
- 570.29 Tropics (Table Q3)
- 570.3.A-Z Systematic divisions. By family, A-Z
- 570.3.E3 Echinophthiriide
- 570.3.H34 Haematomyzidae
- 570.3.H37 Haematopinidae
- 570.3.H38 Haematopinoididae
- 570.3.H64 Hoplopleuridae
- 570.3.N4 Neolignathidae
- 570.3.P4 Pediculidae
- 570.3.P5 Phthiriidae

Coleoptera (Beetles)

- 571 Periodicals, societies, congresses, serial publications
- 572 Collected works (nonserial)
- 573 General works, treatises, and textbooks
- 575 Pictorial works and atlases
- 576 Popular works
- 576.2 Juvenile works
- 577 Classification
- 577.2 Catalogs and collections
- Geographical distribution
 - For geographical distribution of systematic divisions
see QL596.A+
- 578 General works
- 580 America
 - North America
 - 581 General works
 - United States
 - 583 General works
 - 584.A-Z By region or state, A-Z
 - Canada
 - Latin America
 - 585.5 General works
 - 586 Mexico
 - 587 Central America (Table Q3)
 - 588 West Indies (Table Q3)
 - 589 South America (Table Q3)

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Arthropoda

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Coleoptera (Beetles)

Geographical distribution -- Continued

| | |
|----------|---|
| 591 | Europe (Table Q3) |
| 592 | Asia (Table Q3) |
| 593 | Africa (Table Q3) |
| 594 | Australia |
| 594.5 | New Zealand |
| 595 | Pacific islands (Table Q3) |
| 595.2 | Arctic regions |
| 595.4 | Antarctica |
| 595.6 | Tropics |
| 596.A-Z | Systematic divisions. By family, A-Z |
| 596.A23 | Acanthoceridae |
| 596.A27 | Aculognathidae |
| 596.A3 | Aderidae |
| 596.A37 | Aegialiidae |
| 596.A4 | Aglycyderidae |
| 596.A42 | Alleculidae |
| 596.A43 | Alticideae |
| 596.A45 | Amphizoidae |
| 596.A5 | Anobiidae |
| 596.A62 | Anthicidae (Antlike flower beetles) |
| 596.A63 | Anthribidae (Fungus weevils) |
| 596.A64 | Aphodiidae |
| 596.A8 | Atractoceridae |
| 596.A83 | Attelabidae |
| 596.B5 | Bostrichidae (False powderpost beetles) |
| 596.B52 | Bothrideridae |
| 596.B54 | Brachypteridae |
| 596.B58 | Brachyspectridae |
| 596.B6 | Brathinidae |
| 596.B65 | Brentidae |
| 596.B7 | Bruchidae (Seed beetles) |
| 596.B8 | Buprestidae (Metallic wood borers) |
| 596.B97 | Byrrhidae |
| 596.B98 | Byturidae (Fruitworm beetles) |
| 596.C15 | Cantharidae (Soldier beetles) |
| 596.C2 | Carabidae (Ground beetles) |
| | Cassidae see QL596.C5 |
| 596.C28 | Catopochrotidae |
| 596.C3 | Cebrionidae |
| 596.C37 | Cephaloidea |
| 596.C4 | Cerambycidae (Longhorned beetles) |
| 596.C415 | Ceratocanthidae |

Invertebrates

Arthropoda

Insects

Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

| | |
|----------|---|
| 596.C42 | Cerophytidae |
| 596.C43 | Cetoniidae |
| 596.C45 | Chapuisiidae |
| 596.C46 | Chelonariidae |
| 596.C48 | Chlamisidae |
| 596.C5 | Chrysomelidae (Leaf beetles) |
| 596.C56 | Cincindelidae (Tiger beetles) |
| 596.C6 | Ciidae |
| 596.C613 | Cistelidae |
| 596.C617 | Clambidae |
| 596.C618 | Clavigeridae |
| 596.C62 | Cleridae (Checkered beetles) |
| 596.C64 | Clytridae |
| 596.C65 | Coccinellidae (Lady beetles) |
| 596.C66 | Colydiidae. Colydiinae (Cylindrical bark beetles) |
| 596.C667 | Corylophidae |
| 596.C67 | Corynetidae |
| 596.C68 | Cossyphodidae |
| 596.C7 | Crioceridae |
| 596.C77 | Cryptocephalidae |
| 596.C78 | Cryptophagidae |
| 596.C8 | Cucujidae (Flat-bark beetles) |
| 596.C85 | Cupidae |
| 596.C9 | Curculionidae (Snout beetles) |
| 596.C93 | Cyathoceridae |
| 596.C933 | Cybocephalidae |
| 596.C94 | Cyladidae |
| 596.D37 | Dascyllidae |
| 596.D375 | Dasytidae |
| 596.D4 | Dermestidae |
| 596.D42 | Derodontidae |
| 596.D57 | Diphyllidae |
| 596.D58 | Discolomidae |
| 596.D6 | Donaciidae |
| 596.D67 | Drilidae |
| 596.D7 | Dryopidae |
| 596.D85 | Dynastidae |
| 596.D9 | Dytiscidae (Predaceous diving beetles) |
| 596.E3 | Ectrephidae |
| 596.E38 | Elacatidae |
| 596.E4 | Elateridae (Click beetles) |
| 596.E45 | Elmidae |

Invertebrates

Arthropoda

Insects

Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

| | |
|---------|---|
| 596.E5 | Endomychidae |
| 596.E7 | Erotylidae |
| 596.E76 | Euchiridae |
| 596.E77 | Eucinetidae |
| 596.E8 | Eucnemidae |
| 596.E84 | Euglenidae |
| 596.E85 | Eumolpidae |
| 596.E87 | Eurystethidae |
| 596.G3 | Galerucidae |
| 596.G47 | Georyssidae |
| 596.G48 | Geotrupidae |
| 596.G5 | Glaphyridae |
| 596.G6 | Gnostidae |
| 596.G8 | Gyrinidae (Whirligig beetles) |
| 596.H2 | Haliplidae |
| 596.H38 | Helodidae |
| 596.H4 | Helotidae |
| 596.H43 | Hemipeplidae |
| 596.H45 | Heteroceridae |
| 596.H48 | Hispidae |
| 596.H5 | Histeridae (Hister beetles) |
| 596.H78 | Hybosoridae |
| 596.H79 | Hydraenidae |
| 596.H8 | Hydrophilidae (Water scavenger beetles) |
| 596.H85 | Hydroscaphidae |
| 596.H9 | Hygrobiidae |
| 596.H95 | Hypocephalidae |
| 596.I7 | Ipidae |
| 596.J3 | Jacobsoniidae |
| 596.L23 | Lagriidae |
| 596.L25 | Lamiidae |
| 596.L27 | Lamprosomatidae |
| 596.L28 | Lampyridae (Fireflies) |
| 596.L29 | Languriidae |
| 596.L3 | Lathridiidae |
| 596.L35 | Leiodidae (Round fungus beetles) |
| 596.L4 | Leptinidae |
| 596.L43 | Leptodiridae |
| 596.L55 | Limnichidae |
| 596.L58 | Limulodidae |
| 596.L8 | Lucanidae (Stag beetles) |
| 596.L9 | Lycidae (Netwinged beetles) |

Invertebrates

Arthropoda

Insects

Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

| | |
|---------|---------------------------------------|
| 596.L92 | Lyctidae (Powderpost beetles) |
| 596.L94 | Lyxmexylidae (Timber beetles) |
| 596.M2 | Malachiidae |
| 596.M3 | Megalopodidae |
| 596.M34 | Megascelidae |
| | Melasidae see QL596.E8 |
| 596.M38 | Meloidae (Blister beetles) |
| 596.M4 | Melolonthidae (Cockchafers) |
| 596.M43 | Melyridae |
| 596.M47 | Micromalthidae |
| 596.M5 | Micropeplidae |
| 596.M53 | Monoedidae |
| | Monommatidae see QL596.Z66 |
| 596.M57 | Monotomidae |
| 596.M6 | Mordellidae (Tumbling flower beetles) |
| 596.M8 | Murmiidae |
| 596.M9 | Mycetaeidae |
| 596.M92 | Mycetophagidae (Hairy fungus beetles) |
| 596.N4 | Nemonychidae |
| 596.N54 | Nilionidae |
| 596.N57 | Niponiidae |
| 596.N58 | Nitidulidae (Sap beetles) |
| 596.N6 | Nosodendridae |
| 596.O25 | Ochodaeidae |
| 596.O4 | Oedemeridae |
| 596.O67 | Orphnidae |
| 596.O7 | Orthoperidae |
| | Ostomatidae see QL596.T8 |
| 596.P13 | Pachypodidae |
| 596.P17 | Parandridae |
| 596.P2 | Passalidae |
| 596.P25 | Passandridae |
| 596.P3 | Pedilidae |
| 596.P38 | Petriidae |
| 596.P4 | Phaenocephalidae |
| 596.P42 | Phaenomeridae |
| 596.P46 | Phalacridae (Shining fungus beetles) |
| 596.P47 | Phenogodidae (Glowworms) |
| 596.P5 | Plastoceridae |
| 596.P6 | Platypodidae |
| 596.P62 | Platypyllidae |
| 596.P63 | Pleocomidae |

Invertebrates

Arthropoda

Insects

Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

| | |
|----------|----------------------------------|
| 596.P7 | Prionidae |
| 596.P75 | Proterhinidae |
| 596.P8 | Pselaphidae |
| 596.P815 | Psephenidae |
| 596.P83 | Ptiliidae |
| 596.P85 | Ptinidae (Spider beetles) |
| 596.P96 | Pyrochroidae |
| 596.P98 | Phthidae |
| 596.R4 | Rhipiceridae |
| 596.R485 | Rhipiphoridae |
| 596.R5 | Rhizophagidae |
| 596.R57 | Rhysodidae |
| 596.R8 | Rutelidae |
| 596.S23 | Sagridae |
| 596.S28 | Scaphidiidae |
| 596.S3 | Scarabaeidae (Scarabs) |
| 596.S35 | Scolytidae (Bark beetles) |
| 596.S353 | Scolytoplatypodidae |
| 596.S38 | Scraptiidae |
| 596.S4 | Scydmaenidae |
| 596.S45 | Serropalpidae |
| 596.S49 | Silvanidae |
| 596.S5 | Silphidae (Carrion beetles) |
| 596.S53 | Sinodendridae |
| 596.S6 | Smicripidae |
| 596.S65 | Sphaeriidae |
| 596.S66 | Sphaeritidae |
| 596.S68 | Sphaerosomatidae |
| 596.S7 | Sphindidae |
| 596.S75 | Staphylinidae (Rove beetles) |
| 596.S9 | Synteliidae |
| 596.T16 | Telegeusidae |
| 596.T2 | Tenebrionidae (Darkling beetles) |
| 596.T27 | Tetratomidae |
| 596.T35 | Thorictidae |
| 596.T4 | Throscidae |
| 596.T7 | Trichiidae |
| | Trichopterygidae see QL596.P83 |
| 596.T75 | Trictenotomidae |
| 596.T78 | Trogidae |
| 596.T8 | Trogositidae |
| 596.U75 | Urodontidae |

Invertebrates

Arthropoda

Insects

Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

596.Z66

Zopheridae (Ironclad beetles)

597

Anatomy and morphology

597.2

Physiology

Thysanoptera (Thrips)

598

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL598.3.A+

598.15

General works

598.2

North America (United States and Canada) (Table Q3)

598.22

Mexico, Central America, and West Indies (Table Q3)

598.23

South America (Table Q3)

598.24

Europe (Table Q3)

598.25

Asia (Table Q3)

598.26

Africa (Table Q3)

598.27

Australasia and Indo-Pacific islands (Table Q3)

598.28

Polar regions

598.29

Tropics

598.3.A-Z

Systematic divisions. By family, A-Z

598.3.A4

Aeolothripidae

598.3.C4

Ceratothripidae

598.3.C5

Chirothripoididae

598.3.E3

Ecacanthothripidae

598.3.E8

Eupatithripidae

598.3.F7

Franklinothripidae

598.3.H4

Heterothripidae

598.3.H9

Hystrichothripidae

598.3.I3

Idolothripidae

598.3.M44

Megathripidae

598.3.M45

Melanothripidae

598.3.M47

Merothripidae

598.3.M9

Mymarothripidae

598.3.O7

Orothripidae

598.3.P3

Panchaetothripidae

598.3.P45

Phlaeothripidae

598.3.P5

Phloeothripidae

598.3.P9

Pygothripidae

598.3.T4

Thripidae

598.3.U7

Urothripidae

598.4

Anatomy and morphology

598.42

Physiology

Invertebrates

Arthropoda

Insects -- Continued

Mecoptera (Scorpionflies)

- 598.5 General works, treatises, and textbooks
Geographical distribution
For geographical distribution of systematic divisions
see QL598.7.A+
- 598.52 General works
- 598.6 North America (United States and Canada) (Table Q3)
- 598.62 Mexico, Central America, and West Indies (Table Q3)
- 598.63 South America (Table Q3)
- 598.64 Europe (Table Q3)
- 598.65 Asia (Table Q3)
- 598.66 Africa (Table Q3)
- 598.67 Australasia and Indo-Pacific islands (Table Q3)
- 598.68 Polar regions
- 598.69 Tropics
- 598.7.A-Z Systematic divisions. By family, A-Z
- 598.7.B5 Bittacidae
- 598.7.B6 Boreidae
- 598.7.M4 Meropeidae
- 598.7.N6 Notiothaumidae
- 598.7.P3 Panorpidae
- 598.8 Anatomy and morphology
- 598.82 Physiology
- Strepsiptera (Twisted-winged parasites)
- 599 General works, treatises, and textbooks
Geographical distribution
For geographical distribution of systematic divisions
see QL599.3.A+
- 599.15 General works
- 599.2 North America (United States and Canada) (Table Q3)
- 599.22 Mexico, Central America, and West Indies (Table Q3)
- 599.23 South America (Table Q3)
- 599.24 Europe (Table Q3)
- 599.25 Asia (Table Q3)
- 599.26 Africa (Table Q3)
- 599.27 Australasia and Indo-Pacific islands (Table Q3)
- 599.28 Polar regions
- 599.29 Tropics
- 599.3.A-Z Systematic divisions. By family, A-Z
- 599.3.C32 Callipharixenidae
- 599.3.E4 Elenchidae
- 599.3.H3 Halictophagidae

Invertebrates

Arthropoda

Insects

Strepsiptera (Twisted-winged parasites)

Systematic divisions. By family, A-Z -- Continued

599.3.M45

Mengeidae

599.3.M46

Mengenillidae

599.3.M9

Myrmecolacidae

599.3.S85

Stichotrematidae

599.3.S89

Stylopidae

599.4

Anatomy and morphology

599.42

Physiology

Siphonaptera (Fleas)

599.5

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions

see QL599.7.A+

599.52

General works

599.6

North America (United States and Canada) (Table Q3)

599.62

Mexico, Central America, and West Indies (Table Q3)

599.63

South America (Table Q3)

599.64

Europe (Table Q3)

599.65

Asia (Table Q3)

599.66

Africa (Table Q3)

599.67

Australasia and Indo-Pacific islands (Table Q3)

599.68

Polar regions

599.69

Tropics

599.7.A-Z

Systematic divisions. By family, A-Z

599.7.C47

Ceratophyllidae

599.7.D6

Dolichopsyllidae

599.7.H4

Hectopsyllidae

599.7.H9

Hystrichopsyllidae

599.7.I3

Ischnopsyllidae

599.7.P8

Pulicidae

599.7.S8

Stephanocircidae

599.7.T8

Tungidae

599.8

Anatomy and morphology

599.82

Physiology

Chordates. Vertebrates

For behavior see QL750+

For anatomy see QL801+

For physiology see QP1+

605.A1

Periodicals, societies, congresses, serial publications

605.A2

Collected works (nonserial)

605.A3-Z

General works, treatises, and textbooks

605.2

Popular works

Chordates. Vertebrates -- Continued

- 605.3 Juvenile works
- 605.4 Dictionaries and encyclopedias
- Rare and endangered species see QL81.5+
- 606 Introduced vertebrates
 - For local see QL606.5+
- Geographical distribution
 - For geographical distribution of systematic divisions, see the division, e.g. QL619+, Fishes
- 606.5 General works
- 606.52 North America (United States and Canada) (Table Q3)
- 606.53 Mexico, Central America, and West Indies (Table Q3)
- 606.54 South America (Table Q3)
- 606.55 Europe (Table Q3)
- 606.56 Asia (Table Q3)
- 606.57 Africa (Table Q3)
- 606.58 Australasia and Indo-Pacific islands (Table Q3)
- Arctic regions
 - 606.59 General works
 - 606.592 Bering Land Bridge Region. Beringia
 - 606.594 Greenland
 - 606.597 Antarctica
- 606.6 Tropics
- 607 Classification
- 607.2 Catalogs and collections
- 607.5 Evolution (General)
- 607.6 Population dynamics
- 607.9 Collection and preservation
- Protochordata
 - 610 General works
 - 611 Cephalochordata
 - 612 Hemichordata
 - 613 Urochordata (Tunicata)
- Fishes
 - Cf. SH1+ Fish culture, fisheries, angling
 - 614 Periodicals, societies, congresses, serial publications
 - 614.5 Collected works (nonserial)
 - 614.7 Dictionaries and encyclopedias
 - Communication of information
 - 614.73 General works
 - 614.74 Information services
 - 614.75 Computer network resources
 - Including the Internet
 - History of ichthyology
 - 614.8 General works
 - 614.83.A-Z By region or country, A-Z
 - Biography of ichthyologists see QL26+

Chordates. Vertebrates

Fishes -- Continued

- 614.9 Directories
- 615 General works, treatises, and textbooks
- 616 Pictorial works and atlases
- 617 Popular works
- 617.2 Juvenile works
- Rare and endangered species
- 617.7 General works
- 617.73.A-Z By region or country, A-Z
- 618 Classification. Nomenclature
- 618.15 Catalogs and collections
- 618.2 Evolution. Speciation
- 618.3 Population dynamics
- Study and teaching. Research
- 618.5 General works
- 618.55 Fish watching
 - For fish watching in individual regions or countries, see QL620+
- 618.6 Collection and preservation. Fish mounting
 - Cf. SH338+ Fisheries museums and exhibitions
- 618.65 Fish surveys
 - For fish surveys in individual regions or countries, see QL620+
- 618.7 Poisonous fishes. Dangerous fishes
 - Cf. QL638.93 Shark attacks
- Geographical distribution
 - For geographical distribution of systematic divisions see QL637.9+
- 619 General works
- Physiographic divisions
- Marine fishes
 - For marine fishes of a particular coast see QL625+
- 620 General works
- 620.2 Circumpolar
 - Cf. QL637 Arctic Ocean
 - Cf. QL637.2 Antarctic Ocean
- 620.4 Circumtropical
- 620.45 Coral reefs
- 620.6 Intertidal fishes
- Atlantic Ocean
 - Cf. QL632.5 Atlantic Ocean islands
- 621 General works
- North Atlantic
- 621.2 General works
- Eastern North Atlantic
 - Including the coast of Europe

Chordates. Vertebrates

Fishes

Geographical distribution

Physiographic divisions

Marine fishes

Atlantic Ocean

North Atlantic

Eastern North Atlantic -- Continued

- 621.3 General works
- 621.32 Greenland Sea
- 621.34 Norwegian Sea
- 621.35 Baltic Sea
 - Including the Gulf of Bothnia
- 621.36 Kattegat. Skagerrak
- 621.37 North Sea
- 621.38 English Channel
- 621.39 Irish Sea
- 621.395 Biscay, Bay of
- Mediterranean Sea
 - 621.4 General works
 - 621.42 Adriatic Sea
 - 621.44 Aegean Sea
 - 621.46 Black Sea
- Western North Atlantic
 - Including the coast of North America
 - 621.5 General works
 - 621.52 Baffin Bay
 - 621.53 Davis Strait
 - 621.54 Newfoundland Banks
 - 621.56 Gulf of Mexico
 - 621.58 Caribbean Sea
- Central Atlantic. Tropical Atlantic
 - 621.6 General works
 - 621.62 Eastern Central Atlantic
 - 621.65 Western Central Atlantic
- South Atlantic
 - 621.7 General works
 - Eastern South Atlantic
 - Including the coast of Africa
 - 621.72 General works
 - 621.75 Gulf of Guinea
 - 621.77 Western South Atlantic
 - Including the coast of South America
- Indian Ocean
 - Cf. QL636.7 Indian Ocean islands
 - 622 General works
 - North Indian Ocean

Chordates. Vertebrates

Fishes

Geographical distribution

Physiographic divisions

Marine fishes

Indian Ocean

North Indian Ocean -- Continued

622.2

General works

Arabian Sea

622.3

General works

622.32

Persian Gulf

622.34

Red Sea

622.36

Gulf of Aden

Bay of Bengal

622.4

General works

622.45

Andaman Sea

South Indian Ocean

622.5

General works

622.55

Mozambique Channel

Pacific Ocean

Cf. QL636.5 Pacific islands

623

General works

North Pacific

623.2

General works

623.3

Bering Sea

Eastern North Pacific

Including the coast of North America

623.4

General works

623.45

Gulf of Alaska

Western North Pacific

Including the coast of Asia

623.5

General works

623.52

Okhotsk Sea

623.53

Japan Sea

623.54

Yellow Sea

China Sea

623.548

General works

623.55

East China Sea

623.56

South China Sea

623.58

Philippine Sea

623.59

Tonkin, Gulf of

623.6

Central Pacific. Tropical Pacific

South Pacific

623.7

General works

623.8

Eastern South Pacific

Including the coast of South America

Chordates. Vertebrates

Fishes

Geographical distribution

Physiographic divisions

Marine fishes

Pacific Ocean

South Pacific -- Continued

Western South Pacific

Including Australasia

623.9

General works

623.92

Java Sea

623.94

Coral Sea

623.96

Tasman Sea

623.98

Indo-Pacific region

Arctic Ocean see QL637

Antarctic Ocean see QL637.2

624

Freshwater fishes

Class here general works only

For fishes of a particular area see QL625+

Topographic divisions

North America

625

General works

625.5

Great Lakes

Canada

626

General works

626.5.A-Z

By region or province, A-Z

United States

627

General works

628.A-Z

By region or state, A-Z

Cf. QL636.5 Hawaii

Latin America

628.5

General works

629

Mexico

630

Central America (Table Q3)

631

West Indies (Table Q3)

632

South America (Table Q3)

632.5

Atlantic Ocean islands (Table Q3)

633

Europe (Table Q3)

634

Asia (Table Q3)

635

Africa (Table Q3)

Australia

636

General works

636.15.A-Z

By state, territory, or region, A-Z

636.2

New Zealand

636.5

Pacific islands (Table Q3)

636.7

Indian Ocean islands (Table Q3)

Chordates. Vertebrates

Fishes

Geographical distribution

Topographical divisions -- Continued

637

Arctic regions

Including the Arctic Ocean

637.2

Antarctica

Including the Antarctic Ocean

637.5

Tropics

Systematic divisions

637.9.A-Z

Osteichthys (Bony fishes). By order, A-Z

Class species, genera, and families in QL638

Class single-family orders with family in QL638

For general works and works on higher groups of
bony fishes, except dipnoid and ganoid fishes see
QL615For general works on dipnoid and ganoid fishes see
QL638.3

637.9.A3

Acipenseriformes

Amiiformes see QL638.A37

637.9.A5

Anguilliformes (Eels)

637.9.A8

Atheriniformes

637.9.A93

Aulopiformes

Batrachoidiformes see QL638.B3

637.9.B36

Beloniformes

637.9.B4

Beryciformes

Ceratodontiformes see QL638.C356

637.9.C35

Cetomimiformes

Channiformes see QL638.C486

637.9.C38

Characiformes

637.9.C4

Clupeiformes

Coelacanthiformes see QL638.L26

Ctenothrissiformes see QL638.M13

637.9.C9

Cypriniformes

637.9.C95

Cyprinodontiformes

637.9.D3

Dactylopteriformes

637.9.D5

Dipteriformes

637.9.E4

Elopiformes

637.9.G3

Gadiformes

637.9.G37

Gasterosteiformes

Gobiesociformes see QL638.G6

637.9.G6

Gonorynchiformes

637.9.G94

Gymnotiformes

637.9.L3

Lampridiformes

Lepisosteiformes see QL638.L4

637.9.L6

Lophiiformes

637.9.M6

Mormyriiformes

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By order, A-Z -- Continued

- 637.9.M93 Myctophiformes
- 637.9.N6 Notacanthiformes
- 637.9.O63 Ophidiiformes
- 637.9.O76 Osmeriformes
- 637.9.O8 Osteoglossiformes
- 637.9.P46 Pegasiformes see QL638.P32
- 637.9.P47 Perciformes
- 637.9.P5 Percopsiformes
- 637.9.S3 Pleuronectiformes
- 637.9.S35 Polypteriformes see QL638.P76
- 637.9.S5 Salmoniformes
- 637.9.S9 Scorpaeniformes
- 637.9.T4 Siluriformes
- 637.9.Z4 Synbranchiformes
- 638.A-Z Tetraodontiformes

Zeiformes

Osteichthyes (Bony fishes). By family, A-Z

Class here works on species, genera, and families

- 638.A15 Acanthoclinidae
- 638.A2 Acanthuridae (Surgeonfishes)
- 638.A25 Acipenseridae (Sturgeons)
- 638.A27 Acropomatidae
- 638.A29 Adrianichthyidae
- 638.A3 Ageneiosidae
- 638.A316 Agonidae (Poachers)
- 638.A32 Akysidae
- 638.A335 Alabetidae see QL638.G6
- 638.A34 Albulidae (Bonefishes)
- 638.A35 Alepisauridae (Lancetfishes)
- 638.A36 Alepocephalidae
- 638.A364 Amarsipidae
- 638.A366 Amblycipitidae
- 638.A37 Amblyopsidae (Cavefishes)
- 638.A4 Amiidae (Bowfins)
- 638.A44 Ammodytidae (Sand lances)
- 638.A47 Amphiliidae
- 638.A5 Amphipnoidae
- 638.A53 Anabantidae
- 638.A54 Anablepidae
- 638.A55 Anarhichadidae (Wolffishes)
- 638.A556 Anguillidae (Freshwater eels)
- Anisochromidae see QL638.P84
- Anomalopidae

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|----------|--|
| 638.A56 | Anoplogasteridae |
| 638.A567 | Anoplopomatidae (Sablefishes) |
| 638.A568 | Anostomidae |
| 638.A57 | Anotopteridae (Daggertoosths) |
| 638.A577 | Antennariidae (Frogfishes) |
| 638.A6 | Aoteidae |
| 638.A63 | Aphredoderidae (Pirate perches) |
| 638.A64 | Aploactinidae |
| 638.A642 | Aplocheilidae |
| 638.A643 | Aplochitonidae |
| 638.A65 | Aplodactylidae |
| 638.A7 | Apogonidae (Cardinalfishes) |
| 638.A73 | Apternotidae |
| | Arapaimidae see QL638.O88 |
| 638.A75 | Argentinidae |
| 638.A755 | Ariidae (Sea catfishes) |
| 638.A77 | Arripidae |
| 638.A78 | Aspredinidae |
| 638.A785 | Astroblepidae |
| 638.A788 | Astronesthidae |
| 638.A79 | Ateleopodidae |
| 638.A8 | Atherinidae (Silversides) |
| 638.A83 | Auchenipteridae |
| 638.A84 | Aulopodidae |
| 638.A844 | Aulorhynchidae |
| 638.A848 | Aulostomidae (Trumpetfishes) |
| 638.B13 | Bagridae |
| 638.B15 | Balistidae (Triggerfishes; filefishes) |
| 638.B153 | Balitoridae (Hillstream loaches) |
| 638.B155 | Banjosiidae |
| 638.B17 | Barbourisiidae |
| 638.B18 | Bathyclupeidae |
| 638.B2 | Bathydraconidae |
| 638.B23 | Bathylaconidae |
| 638.B25 | Bathylagidae (Deepsea smelts) |
| 638.B26 | Bathymasteridae (Ronquils) |
| 638.B27 | Bathypteroidae |
| 638.B3 | Batrachoididae (Toadfishes) |
| 638.B34 | Belonidae (Needlefishes) |
| 638.B347 | Belontiidae |
| 638.B4 | Berycidae |
| 638.B6 | Blenniidae (Combtooth blennies) |
| 638.B65 | Bothidae (Lefteye flounders) |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|-----------|----------------------------------|
| 638.B67 | Bovichthyidae |
| 638.B7 | Bracionichthyidae (Handfishes) |
| 638.B8 | Bramidae (Pomfrets) |
| 638.B83 | Branchiostegidae (Tilefishes) |
| 638.B85 | Bregmacerotidae (Codlets) |
| 638.C12 | Caesionidae |
| 638.C14 | Callichthyidae |
| 638.C15 | Callionymidae (Dragonets) |
| 638.C2 | Caproidae (Boarfishes) |
| 638.C23 | Caracanthidae |
| 638.C25 | Carangidae (Jacks; pompanos) |
| 638.C26 | Carapidae (Pearlfishes) |
| 638.C265 | Caristiidae |
| 638.C27 | Catostomidae (Suckers) |
| 638.C28 | Caulophrynidae |
| 638.C3 | Centrarchidae (Sunfishes) |
| 638.C32 | Centriscidae (Snipefishes) |
| 638.C326 | Centrolophidae |
| 638.C33 | Centrophrynidae |
| 638.C34 | Centropomidae (Snooks) |
| 638.C347 | Cepolidae |
| 638.C35 | Ceratiidae (Seadevils) |
| 638.C356 | Ceratodontidae |
| 638.C36 | Cetomimidae |
| 638.C37 | Cetopsidae |
| 638.C385 | Chacidae |
| 638.C4 | Chaenopsidae |
| 638.C48 | Chaetodontidae (Butterflyfishes) |
| 638.C483 | Champsodontidae |
| 638.C484 | Chanidae |
| 638.C485 | Channichthyidae |
| 638.C486 | Channidae |
| 638.C5 | Characidae (Characins; tetras) |
| 638.C53 | Chaudhuriidae |
| 638.C534 | Chauliodontidae (Viperfishes) |
| 638.C5344 | Chaunacidae |
| 638.C536 | Cheilodactylidae |
| 638.C5365 | Cheimarrichthyidae |
| 638.C54 | Chiasmodontidae |
| 638.C544 | Chilodontidae |
| 638.C547 | Chironemidae |
| 638.C549 | Chlorophthalmidae (Greeneyes) |
| 638.C55 | Cichlidae (Cichlids) |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|-----------|--|
| 638.C577 | Cirrhitidae (Hawkfishes) |
| 638.C578 | Citharidae |
| 638.C5785 | Citharinidae |
| 638.C6 | Clariidae (Airbreathing catfishes) |
| 638.C63 | Clinidae (Clinids; blennies) |
| 638.C64 | Clupeidae (Herrings) |
| 638.C647 | Cobitidae (Loaches) |
| (638.C65) | Coelacanthidae |
| | see QL638.L26 |
| 638.C6535 | Colocongridae |
| 638.C654 | Comephoridae |
| 638.C655 | Congiopodidae |
| 638.C66 | Congridae (Conger eels) |
| 638.C666 | Congrogadidae |
| 638.C7 | Coracinidae |
| | Coregonidae see QL638.S2 |
| 638.C795 | Coryphaenidae (Dolphinfishes) |
| | Coryphaenoididae see QL638.M2 |
| 638.C8 | Cottidae (Sculpins) |
| 638.C816 | Cottocomephoridae |
| 638.C818 | Cottunculidae |
| 638.C83 | Cranoglanididae |
| 638.C84 | Creediidae |
| 638.C88 | Ctenoluciidae |
| 638.C89 | Curimatidae |
| 638.C9 | Cyclopteridae (Lumpsuckers; snailfishes) |
| 638.C914 | Cyemidae |
| 638.C92 | Cynodontidae |
| 638.C93 | Cynoglossidae (Tonguefishes) |
| 638.C94 | Cyprinidae (Minnows; carps) |
| 638.C96 | Cyprinodontidae (Killifishes) |
| 638.D3 | Dactylopteridae (Flying gurnards) |
| 638.D35 | Dactyloscopidae (Sand stargazers) |
| 638.D4 | Denticipitidae |
| 638.D47 | Derichthyidae |
| 638.D5 | Diceratiidae |
| 638.D56 | Diodontidae (Porcupinefishes) |
| 638.D57 | Diplomystidae |
| 638.D577 | Diretmidae |
| 638.D58 | Distichodontidae |
| 638.D6 | Doradidae |
| 638.D73 | Drepaneidae (Sicklefishes) |
| | Dummumieriidae see QL638.C64 |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|----------|---------------------------------------|
| 638.D93 | Dysommidae (Arrowtooth eels) |
| 638.D95 | Dysommidae |
| 638.E2 | Echeneidae (Remoras) |
| 638.E34 | Electrophoridae (Electric eel) |
| 638.E4 | Elopidae (Ladyfishes, etc.) |
| 638.E5 | Embiotocidae (Surfperches) |
| 638.E53 | Emmelichthyidae (Bonnetmouths) |
| 638.E55 | Engraulidae (Anchovies) |
| 638.E556 | Enoplosidae |
| 638.E6 | Ephippidae (Spadefishes) |
| 638.E62 | Epigonidae (Deepwater cardinalfishes) |
| 638.E65 | Erythrinidae |
| 638.E7 | Esocidae (Pikes) |
| 638.E8 | Eurypharyngidae |
| 638.E83 | Eutaeniophoridae |
| 638.E87 | Evermannellidae |
| 638.E9 | Exocoetidae (Flying fishes) |
| | Fierasferidae see QL638.C26 |
| 638.F5 | Fistulariidae (Cornetfishes) |
| 638.F6 | Formionidae |
| 638.F86 | Fundulidae |
| 638.G2 | Gadidae (Codfishes) |
| 638.G23 | Gadopsidae |
| 638.G25 | Galaxiidae |
| 638.G266 | Gasteropelecidae |
| 638.G27 | Gasterosteidae (Sticklebacks) |
| 638.G4 | Gempylidae (Snake mackerels) |
| 638.G43 | Gerridae (Mojarras) |
| 638.G45 | Gibberichthyidae |
| 638.G455 | Gigantactinidae |
| 638.G5 | Giganturidae |
| 638.G55 | Glaucosomitidae (Pearl perches) |
| 638.G6 | Gobiesocidae (Clingfishes) |
| 638.G7 | Gobiidae (Gobies) |
| 638.G73 | Gobioididae |
| 638.G75 | Gonorynchidae |
| 638.G8 | Gonostomatidae (Lightfishes) |
| 638.G82 | Goodeidae |
| 638.G843 | Grammicolepididae |
| 638.G844 | Grammidae |
| 638.G848 | Grammistidae (Soapfishes) |
| 638.G85 | Gregoryinidae |
| 638.G87 | Gymnarchidae |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|-----------|------------------------------------|
| | Gymnodontidae see QL638.T32 |
| 638.G9 | Gymnotidae |
| 638.G95 | Gyrinocheilidae |
| 638.H23 | Haemulidae (Grunts) |
| 638.H25 | Halosauridae |
| 638.H28 | Harpagiferidae |
| 638.H3 | Harpodontidae |
| 638.H444 | Helogeneidae |
| 638.H448 | Helostomatidae |
| 638.H45 | Hemiodontidae |
| 638.H46 | Hemiramphidae (Halfbeaks) |
| 638.H47 | Hepsetidae |
| 638.H484 | Heterenchelyidae |
| 638.H486 | Heteropneustidae |
| 638.H49 | Hexagrammidae (Greenlings) |
| 638.H54 | Himantolophidae (Footballfishes) |
| 638.H56 | Hiodontidae (Mooneyes) |
| 638.H64 | Holocentridae (Squirrelfishes) |
| (638.H66) | Homalopteridae
see QL638.B153 |
| 638.H67 | Hoplichthyidae |
| 638.H68 | Horaichthyidae |
| 638.H93 | Hypophthalmidae |
| 638.H935 | Hypoptychidae |
| 638.I13 | Icelidae |
| 638.I15 | Ichthyboridae |
| 638.I23 | Icosteidae (Ragfishes) |
| 638.I3 | Ictaluridae (Freshwater catfishes) |
| 638.I35 | Idiacanthidae |
| 638.I4 | Indostomidae |
| 638.I6 | Ipnopidae |
| 638.I86 | Isonidae |
| 638.I88 | Istiophoridae (Billfishes) |
| 638.J4 | Jenynsiidae |
| 638.K3 | Kasidoridae |
| 638.K5 | Kneriidae |
| 638.K6 | Korsogasteridae |
| 638.K7 | Kraemeriidae |
| 638.K8 | Kuhliidae |
| 638.K87 | Kurtidae |
| 638.K9 | Kyphosidae (Sea chubs) |
| 638.L115 | Labracoglossidae |
| 638.L12 | Labridae (Wrasses) |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|-----------|-----------------------------------|
| 638.L2 | Lacteriidae |
| 638.L24 | Lampridae (Opahs) |
| 638.L26 | Latimeriidae |
| 638.L28 | Latridae |
| 638.L3 | Lebiasinidae |
| 638.L35 | Leiognathidae |
| 638.L37 | Lepidosirenidae |
| 638.L4 | Lepisosteidae (Gars) |
| 638.L47 | Leptoscopidae |
| 638.L48 | Lethrinidae |
| 638.L5 | Limnichthyidae |
| 638.L55 | Linophrynidae |
| | Liparidae see QL638.C9 |
| 638.L57 | Lipogenidae |
| 638.L6 | Lobotidae (Tripletails) |
| 638.L75 | Lophiidae (Goosefishes) |
| 638.L77 | Lophotidae (Crestfishes) |
| 638.L785 | Loricariidae (Armored catfishes) |
| 638.L8 | Luciocephalidae |
| 638.L9 | Lutjanidae (Snappers) |
| 638.L95 | Luvaridae (Louvars) |
| 638.M13 | Macristiidae |
| 638.M16 | Macrocephenchelyidae |
| 638.M165 | Macrorhamphosidae |
| 638.M2 | Macrouridae (Grenadiers) |
| 638.M22 | Macrurocyttidae |
| 638.M24 | Malacosteidae |
| 638.M246 | Malapteruridae |
| 638.M28 | Mastacembelidae |
| 638.M33 | Megalopidae (Tarpon) |
| 638.M34 | Melamphaeidae |
| 638.M35 | Melanocetidae |
| | Melanostomiatidae see QL638.M3573 |
| 638.M3573 | Melanostomiidae |
| 638.M358 | Melanotaeniidae |
| 638.M37 | Menidae |
| 638.M4 | Merlucciidae |
| 638.M5 | Microdesmidae (Wormfishes) |
| | Microstomidae see QL638.B25 |
| 638.M57 | Mirapinnidae |
| 638.M6 | Mochokidae |
| 638.M64 | Molidae (Molas) |
| 638.M645 | Monacanthidae |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|-----------|--------------------------------|
| 638.M65 | Monocentridae |
| 638.M653 | Monodactylidae |
| 638.M654 | Monognathidae |
| 638.M67 | Moridae |
| 638.M675 | Moringuidae (Spaghetti eels) |
| 638.M676 | Mormyridae |
| 638.M678 | Moronidae |
| 638.M8 | Mugilidae (Mulletts) |
| (638.M84) | Mugiloididae
see QL638.P613 |
| 638.M85 | Mullidae (Goatfishes) |
| 638.M87 | Muraenesocidae (Pike congers) |
| 638.M875 | Muraenidae (Morays) |
| 638.M876 | Muraenolepididae |
| 638.M9 | Myctophidae (Lanternfishes) |
| 638.M97 | Myrocongridae |
| 638.N25 | Nandidae |
| 638.N3 | Neenchelyidae |
| 638.N33 | Nematistiidae |
| 638.N34 | Nemichthyidae (Snipe eels) |
| 638.N347 | Nemipteridae |
| 638.N36 | Neoceratiidae |
| 638.N38 | Neoscopelidae |
| 638.N387 | Neostethidae |
| 638.N4 | Nessorhamphidae |
| 638.N46 | Nettastomatidae |
| 638.N5 | Nomeidae |
| 638.N57 | Normanichthyidae |
| 638.N58 | Notacanthidae (Spiny eels) |
| 638.N586 | Notograptidae |
| 638.N5867 | Notopteridae |
| 638.N5873 | Notosudidae |
| 638.N6 | Nototheniidae |
| | Novumbridae see QL638.U5 |
| 638.O2 | Odacidae |
| 638.O23 | Odontobutidae |
| 638.O3 | Ogcocephalidae (Batfishes) |
| 638.O4 | Olyridae |
| 638.O45 | Omosudidae |
| 638.O5 | Oneirodidae |
| 638.O633 | Ophichthidae (Snake eels) |
| 638.O634 | Ophiclinidae |
| 638.O637 | Ophidiidae (Cusk eels) |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

| | |
|----------|-------------------------------------|
| 638.O65 | Opisthognathidae (Jawfishes) |
| 638.O657 | Opisthoproctidae (Spookfishes) |
| 638.O67 | Oplegnathidae |
| 638.O7 | Oreosomatidae |
| 638.O78 | Oryziatidae |
| 638.O84 | Osmeridae (Smelts) |
| 638.O87 | Osphronemidae |
| 638.O88 | Osteoglossidae |
| 638.O887 | Ostraciontidae |
| 638.O9 | Owstoniidae |
| | Oxudercidae see QL638.G7 |
| 638.P254 | Pangasiidae |
| 638.P258 | Pantodontidae |
| 638.P3 | Paralepididae |
| 638.P313 | Paralichthyidae (Sand flounders) |
| 638.P315 | Parazenidae |
| 638.P316 | Parodontidae |
| 638.P318 | Pataecidae |
| 638.P32 | Pegasidae |
| 638.P34 | Pempheridae (Sweepers) |
| 638.P35 | Pentacerotidae (Armorheads) |
| 638.P357 | Penatpodidae |
| 638.P358 | Percichthyidae |
| 638.P4 | Percidae (Perches; darters) |
| 638.P464 | Percophididae (Flatheads) |
| 638.P468 | Percopsidae (Trout-perches) |
| 638.P47 | Peronedysidae |
| 638.P5 | Phallostethidae |
| 638.P55 | Pholidichthyidae |
| 638.P56 | Pholididae (Gunnels) |
| 638.P57 | Phractolaemidae |
| 638.P58 | Phycidae |
| 638.P6 | Pimelodidae |
| 638.P613 | Pinguipedidae (Sandperches) |
| 638.P62 | Platycephalidae |
| 638.P63 | Platyroctidae |
| 638.P64 | Plecoglossidae |
| 638.P648 | Plesiopidae |
| 638.P7 | Pleuronectidae (Righteye flounders) |
| 638.P72 | Plotosidae |
| 638.P73 | Poeciliidae (Livebearers) |
| 638.P747 | Polymixiidae (Beardfishes) |
| 638.P75 | Polynemidae (Threadfins) |

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.P755 Polyodontidae (Paddlefishes)
 638.P76 Polypteridae
 638.P768 Pomacanthidae (Marine angelfishes)
 638.P77 Pomacentridae (Damsel-fishes)
 (638.P772) Pomadasyidae (Grunts)
 see QL638.H23
 638.P778 Pomatomidae (Bluefishes)
 638.P785 Priacanthidae (Bigeyes)
 638.P786 Prochilodontidae
 638.P788 Profundulidae (Middle American killifishes)
 638.P8 Psettodidae
 638.P84 Pseudochromidae
 638.P844 Pseudogrammidae
 Pseudoplesiopidae see QL638.P84
 638.P855 Psilorhynchidae
 638.P88 Psychrolutidae
 638.P9 Ptilichthyidae (Quillfishes)
 Pygidiidae see QL638.T76
 638.P97 Pyramodontidae
 638.R3 Rachycentridae (Cobias)
 638.R4 Regalecidae (Oarfishes)
 638.R48 Retropinnidae
 638.R5 Rhamphichthyidae
 638.R55 Rhinoprenidae
 638.R59 Rhyacichthyidae
 638.R65 Rondeletiidae
 638.R68 Rosauridae
 638.S15 Saccopharyngidae
 638.S18 Salangidae
 638.S2 Salmonidae (Salmon; trout; whitefishes)
 638.S3 Scaridae (Parrotfishes)
 638.S32 Scatophagidae (Scats)
 638.S334 Schilbeidae
 638.S335 Schindleriidae
 638.S34 Sciaenidae (Drums)
 638.S347 Scomberesocidae (Sauries)
 638.S35 Scombridae (Tuna; mackerel)
 638.S374 Scopelarchidae (Pearleyes)
 Scopelosauridae see QL638.N5873
 638.S38 Scophthalmidae
 638.S42 Scorpaenidae (Scorpionfishes)
 638.S45 Scytalinidae (Graveldivers)

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

- (638.S47) Searsidae (Tubeshoulders)
 see QL638.P63
- 638.S48 Serranidae (Sea basses)
- (638.S483) Serrasalminidae
 see QL638.C5
- 638.S485 Serrivomeridae
- 638.S5 Siganidae
- 638.S54 Sillaginidae
- 638.S6 Siluridae (Old World catfishes)
- 638.S64 Simenchelyidae
- 638.S68 Sisoridae
- 638.S7 Soleidae (Soles)
- 638.S73 Solenostomidae
- 638.S74 Sparidae (Porgies)
- 638.S77 Sphyrinae (Barracudas)
- 638.S785 Stephanoberycidae
- 638.S8 Sternoptychidae
- 638.S83 Sternopygidae (Glass knifefishes)
- 638.S84 Stichaeidae (Pricklebacks)
- 638.S86 Stomiidae
- 638.S87 Stromateidae (Butterfishes)
- 638.S88 Stylephoridae (Tube-eyes)
- Synancejidae see QL638.S42
- 638.S892 Synphobranchidae
- 638.S893 Synbranchidae
- 638.S9 Syngnathidae (Pipefishes; seahorses)
- 638.S96 Synodontidae (Lizardfishes)
- 638.T27 Theraponidae
- Tetraodonidae see QL638.C5
- 638.T3 Tetraodonidae
- 638.T32 Tetraodontidae (Puffers)
- Theraponidae see QL638.T27
- Thunnidae see QL638.S35
- 638.T55 Todaridae
- 638.T6 Toxotidae
- 638.T68 Trachichthyidae
- 638.T685 Trachinidae
- 638.T69 Trachipteridae (Ribbonfishes)
- 638.T695 Triacanthidae (Spikefishes)
- 638.T7 Trichiuridae (Cutlassfishes)
- 638.T73 Trichodontidae (Sandfishes)
- 638.T76 Trichomycteridae
- 638.T78 Trichonotidae

Chordates. Vertebrates

Fishes

Systematic divisions

Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.T8 Triglidae (Searobins)
- 638.T85 Triodontidae
- 638.T87 Tripterygiidae
- 638.T95 Trypauchenidae
- 638.U5 Umbridae (Mudminnows)
- 638.U7 Uranoscopidae (Stargazers)
- 638.V4 Veliferidae
- 638.X4 Xenocephalidae
- 638.X45 Xenocongridae (False morays)
- 638.X5 Xiphiidae (Swordfishes)
- 638.Z28 Zanclidae (Moorish idol)
- 638.Z3 Zaniolepididae
- 638.Z36 Zaproridae (Prowfishes)
- 638.Z4 Zeidae (Dories)
- 638.Z6 Zoarcidae (Eelpouts)

Agnatha (Jawless fishes)

- 638.12 General works
- Myxini
 - 638.13 General works
 - Myxiniformes (Hagfishes)
 - 638.14 General works
 - 638.15.A-Z By family, A-Z
 - (638.15.B35) Bdellostomatidae
 - see QL638.15.M9
 - 638.15.M9 Myxinidae
 - (638.15.P37) Paramyxinidae
 - see QL638.15.M9
- Cephalaspidomorphi
 - 638.18 General works
 - Petromyzontiformes (Lampreys)
 - 638.2 General works
 - 638.25.A-Z By family, A-Z
 - 638.25.G45 Geotriidae
 - 638.25.P48 Petromyzontidae
- 638.3 Dipnoid fishes
 - Class here general works only
 - For specific fishes see QL637.9+
- 638.5 Ganoid fishes
 - Class here general works only
 - For specific fishes see QL637.9+
- 638.6 Chondrichthyes (Cartilaginous fishes)
 - General works
 - Chimaeriformes

Chordates. Vertebrates

Fishes

Systematic divisions

Chondrichthyes (Cartilaginous fishes)

Chimaeriformes -- Continued

638.7

General works

638.75.A-Z

By family, A-Z

638.75.C4

Chimaeridae (Chimaeras)

Pristiformes (Sawfishes)

638.77

General works

638.78.A-Z

By family, A-Z

638.78.P75

Pristidae

Rajiformes (Rays)

638.8

General works

638.85.A-Z

By family, A-Z

638.85.A5

Anacanthobatidae

638.85.A7

Arhynchobatidae

638.85.D3

Dasyatidae (Stingrays)

638.85.G9

Gymnuridae

638.85.H48

Hexatrygonidae (Sixgill stingrays)

638.85.M6

Mobulidae (Manta rays)

638.85.M9

Myliobatidae (Eagle rays)

638.85.P6

Potamotrygonidae (Freshwater stingrays)

(638.85.P7)

Pristidae (Sawfishes)

see QL638.78.P75

638.85.R3

Rajidae (Skates)

638.85.R4

Rhinobatidae (Guitarfishes)

Rhinopteridae see QL638.85.M9

638.85.R48

Rhynchobatidae

(638.85.T6)

Torpedinidae

see QL638.875.T6

Urolophidae see QL638.85.D3

Torpediniformes (Electric rays)

638.87

General works

638.875.A-Z

By family, A-Z

638.875.T6

Torpedinidae (Torpedo electric rays)

Sharks

638.9

General works

638.93

Shark attacks. Shark repellents

Systematic divisions

638.94.A-Z

By order, A-Z

Class species, genera, and families in QL638.95

Class single-family orders with the family in

QL638.95

638.94.C37

Carcharhiniformes (Ground sharks)

Heterodontiformes see QL638.95.H4

638.94.H49

Hexanchiformes

Chordates. Vertebrates

Fishes

Systematic divisions

Chondrichthyes (Cartilaginous fishes)

Sharks

Systematic divisions

By order, A-Z -- Continued

- | | |
|------------|--|
| 638.94.L36 | Lamniformes |
| 638.94.O74 | Orectolobiformes (Carpet sharks) |
| | Pristiophoriformes see QL638.95.P7 |
| 638.94.S75 | Squaliformes |
| | Squatiniformes see QL638.95.S88 |
| 638.95.A-Z | By family, A-Z |
| 638.95.A4 | Alopiidae (Thresher sharks) |
| 638.95.C3 | Carcharhinidae (Requiem sharks) |
| | Carchariidae see QL638.95.O3 |
| 638.95.C37 | Cetorhinidae (Basking shark) |
| 638.95.C4 | Chlamydoselachidae (Frisled sharks) |
| 638.95.D3 | Dalatiidae (Kitefin sharks; sleeper sharks) |
| | Echniorhinidae see QL638.95.S84 |
| 638.95.G55 | Ginglymostomatidae (Nurse sharks) |
| 638.95.H4 | Heterodontidae (Bullhead sharks) |
| 638.95.H48 | Hexanchidae (Cow sharks) |
| | Isuridae see QL638.95.L3 |
| 638.95.L3 | Lamnidae (Mackerel sharks) |
| 638.95.M44 | Megachasmidae (Megamouth shark) |
| 638.95.M58 | Mitsukurinidae (Goblin shark) |
| 638.95.O3 | Odontaspidae (Sand tigers) |
| 638.95.O7 | Orectolobidae (Wobbegongs) |
| 638.95.P7 | Pristiophoridae (Saw sharks) |
| 638.95.P8 | Pseudotriakidae (False cat shark) |
| 638.95.R4 | Rhincodontidae (Whale shark) |
| 638.95.S3 | Scapanorhynchidae |
| 638.95.S38 | Scyliorhinidae (Cat sharks) |
| | Somniosidae see QL638.95.D3 |
| 638.95.S7 | Sphyrnidae (Hammerhead sharks) |
| 638.95.S84 | Squalidae (Dogfish sharks) |
| 638.95.S88 | Squatinidae (Angel sharks) |
| 638.95.S92 | Stegostomatidae (Zebra shark) |
| 638.95.T75 | Triakidae (Houndsharks) |
| 638.97 | Immunology |
| 638.99 | Genetics |
| 639 | Anatomy and morphology |
| 639.1 | Physiology |
| | Including electrophysiology and electric fishes |
| | For effects of pollution, disease, etc. see SH171+ |

Chordates. Vertebrates

Fishes -- Continued

- 639.15 Age determination. Age/growth calculations. Length/weight relationships
For particular groups or species see QL637.9+
- 639.16 Racial analysis
- 639.2 Reproduction and spawning
Cf. SH155.6 Artificial spawning
Cf. SH155.7 Induced spawning
- 639.25 Development. Eggs and larvae
- 639.3 Behavior
- 639.4 Locomotion
- 639.5 Migration. Diadromy
Cf. SH156.8 Fish tagging
- 639.6 Vertical distribution
Including diel vertical migration
- 639.8 Ecology
Parasites see SH175
- Reptiles and amphibians
- 640 Periodicals, societies, congresses, serial publications
- 640.5 Collected works (nonserial)
- 640.7 Dictionaries and encyclopedias
- 641 General works, treatises, and textbooks
- 643 Pictorial works and atlases
- 644 Popular works
- 644.2 Juvenile works
- Rare and endangered species
- 644.7 General works
- 644.73.A-Z By region or country, A-Z
- Extinct reptiles and/or amphibians
- 644.8 General works
- 644.83.A-Z By region or country, A-Z
- 645 Classification. Nomenclature
- 645.2 Catalogs and collections
- Evolution
- 645.3 General works
- 645.4 Speciation
- 645.5 Variation
- Study and teaching. Research
Including census taking, banding, marking, tagging, etc., and
general works on amphibian and reptile watching and
viewing sites
- 645.6 General works
- 645.63.A-Z By region or country, A-Z
- 645.65 Collection and preservation
- 645.7 Dangerous reptiles

Chordates. Vertebrates

Reptiles and amphibians -- Continued

Geographical distribution

Class here works on the reptiles and/or amphibians of a specific region

For geographical distribution of systematic divisions see QL666.A+

- 648 General works
- North America
- 651 General works
- United States
- 652 General works
- 653.A-Z By region or state, A-Z
- Canada
- 654 General works
- 654.2.A-Z By region, province, or territory, A-Z
- Latin America
- 654.5 General works
- 655 Mexico
- Including Yucatán Peninsula
- 656 Central America (Table Q3)
- 656.5 West Indies (Table Q3)
- 657 South America (Table Q3)
- 658 Europe (Table Q3)
- 661 Asia (Table Q3)
- 662 Africa (Table Q3)
- 663 Australia
- 663.5 New Zealand
- 664 Pacific islands (Table Q3)
- 664.2 Arctic regions
- 664.4 Antarctica
- 664.6 Tropics
- Systematic divisions
- Reptiles
- 665 General works, treatises, and textbooks
- Juvenile works see QL644.2
- Physiographic divisions
- Aquatic reptiles. Water reptiles
- 665.3 General works
- 665.5 Marine reptiles. Sea reptiles
- Geographical distribution see QL648+
- 666.A-Z By order and family, A-Z
- Amphisbaenia see QL666.L192+
- Chelonia (Testudinata; turtles)
- 666.C5 General works
- 666.C52 Carettochelyidae (Pitted-shell turtles)
- 666.C535 Chelidae

Chordates. Vertebrates

Reptiles and amphibians

Systematic divisions

Reptiles

By order and family, A-Z

Chelonia (Testudinata; turtles) -- Continued

- 666.C536 Cheloniidae
- 666.C539 Chelydridae
- 666.C54 Dermatemydidae
- 666.C546 Dermochelyidae (Leatherback turtle)
- 666.C547 Emydidae (Box turtles)
- 666.C55 Kinosternidae
- 666.C57 Pelomedusidae
- 666.C584 Testudinidae (Tortoises)
- 666.C587 Trionychidae (Softshell turtles)
- Crocodylia (Crocodylians)
- 666.C9 General works
- 666.C925 Crocodylidae (Alligators; crocodiles; caimans;
gavial)
- (666.C94) Gavialidae
see QL666.C925

Squamata

- 666.L19 General works
- Amphisbaenia
- 666.L192 General works
- 666.L193 Amphisbaenidae
- 666.L194 Bipedidae
- Lacertilia (Sauria; lizards)
- 666.L2 General works
- (666.L21-.L2196) Geographical distribution
see QL648+
- 666.L223 Agamidae
- Amphisbaenidae see QL666.L192+
- 666.L225 Anelytropsidae
- 666.L2254 Anguidae (Glass lizards)
- 666.L2256 Anniellidae
- 666.L23 Chamaeleontidae (Chameleons)
- 666.L234 Cordylidae (Girdle-tailed lizards)
- 666.L236 Corytophanidae
- 666.L237 Crotophytidae
- 666.L238 Dibamidae
- 666.L24 Eublepharidae
- 666.L243 Feylinidae
- 666.L245 Gekkonidae (Geckos)
- 666.L247 Helodermatidae (Gila monsters)
- 666.L248 Hoplocercidae
- 666.L25 Iguanidae

Chordates. Vertebrates

Reptiles and amphibians

Systematic divisions

Reptiles

By order and family, A-Z

Squamata

Lacertilia (Sauria; lizards) -- Continued

- 666.L255 Lacertidae
 666.L2556 Lanthanotidae
 666.L265 Opluridae
 666.L267 Phrynosomatidae
 666.L268 Polychrotidae
 666.L27 Pygopodidae
 666.L28 Scincidae (Skinks)
 Sphaerodactylidae see QL666.L245
- 666.L285 Teiidae
 666.L287 Tropiduridae
 666.L29 Varanidae (Monitor lizards)
 666.L293 Xantusiidae
 666.L295 Xenosauridae
- Serpentes (Ophidia; snakes)
- 666.O6 General works
 666.O62 Acrochordidae (Wart snakes; file snakes)
 666.O625 Aniliidae (False coral snakes; coral pipe snakes)
 666.O626 Anomalepididae (Primitive blind snakes; dawn
 blind snakes)
 666.O6265 Anomochilidae (Dwarf pipe snakes)
 666.O627 Atractaspididae (Mole vipers)
 666.O63 Boidae (Boas)
 666.O633 Bolyeriidae (Round Island boas)
 666.O636 Colubridae
 Crotalidae see QL666.O69
 666.O638 Cylindrophiiidae (Asian pipe snakes)
 666.O64 Elapidae (Cobras; coral snakes; sea snakes)
 (666.O645) Hydrophiidae
 see QL666.O64
 666.O65 Leptotyphlopidae (Slender blind snakes)
 666.O66 Loxocemidae (Mexican burrowing pythons)
 666.O67 Pythonidae
 666.O68 Tropidophiidae (Dwarf boas)
 666.O685 Typhlopidae (Blind snakes)
 666.O688 Uropeltidae (Shield-tailed snakes)
 666.O69 Viperidae (Vipers and pit vipers)
 666.O694 Xenopeltidae (Sunbeam snakes)
- Rhynchocephalia
- 666.R4 General works
 666.R48 Sphenodontidae (Tuatara)

Chordates. Vertebrates

Reptiles and amphibians

Systematic divisions

Reptiles

By order and family, A-Z -- Continued

Squamata see QL666.L19+

Amphibians

667

General works, treatises, and textbooks

Juvenile works see QL644.2

Geographical distribution see QL648+

668.A-Z

By order and family, A-Z

Gymnophiona (Apoda; caecilians)

668.A6

General works

668.A63

Caeciliidae

668.A65

Ichthyophiidae

668.A67

Rhinatreumatidae

668.A68

Scolecomorphidae

668.A69

Uraeotyphlidae

Caudata (Urodela; salamanders; newts)

668.C2

General works

668.C23

Ambystomatidae (Mole salamanders)

668.C237

Amphiumidae

668.C24

Cryptobranchidae (Giant salamanders)

668.C243

Dicamptodontidae

668.C25

Hynobiidae

668.C274

Plethodontidae (Lungless salamanders)

668.C277

Proteidae

668.C278

Rhyacotritonidae

668.C28

Salamandridae (Newts)

668.C285

Sirenidae

Ecaudata (Anura; Salientia; frogs; toads)

668.E2

General works

668.E214

Alytidae

668.E217

Ascaphidae (Tailed frogs)

(668.E22)

Atelopodidae

see QL668.E227

668.E224

Bombinatoridae

668.E225

Brevicipitidae

668.E227

Bufonidae (Toads)

668.E23

Centrolenidae (Glass frogs)

668.E232

Ceratobatrachidae

668.E233

Dendrobatidae

668.E234

Dicroglossidae

(668.E235)

Discoglossidae

see QL668.E214

668.E237

Hemiphractidae

668.E24

Hylidae (Tree frogs)

- Chordates. Vertebrates
 - Reptiles and amphibians
 - Systematic divisions
 - Amphibians
 - By order and family, A-Z
 - Ecaudata (Anura; Salientia; frogs; toads) -- Continued
 - 668.E244 Hyperoliidae
 - 668.E255 Leiopelmatidae
 - 668.E257 Leptodactylidae (Robber frogs)
 - 668.E259 Mantellidae
 - 668.E26 Microhylidae (Narrow-mouthed toads)
 - 668.E2615 Myobatrachidae
 - 668.E262 Pelobatidae (Eurasian spadefoot toads)
 - 668.E2626 Pelodyadidae
 - 668.E263 Pelodytidae
 - 668.E264 Phrynomeridae
 - 668.E265 Pipidae
 - 668.E268 Pseudidae
 - 668.E27 Ranidae (Frogs)
 - 668.E274 Rhacophoridae
 - 668.E275 Rhinophrynidae
 - 668.E33 Scaphiopodidae (North American spadefoot toads)
 - 668.5 Genetics
 - 669 Anatomy and morphology
 - 669.2 Physiology
 - 669.25 Age determination. Life spans. Longevity
 - 669.3 Reproduction
 - 669.5 Behavior
 - 669.8 Ecology
- Birds
 - 671 Periodicals, societies, congresses, serial publications
 - 672 Collected works (nonserial)
 - 672.2 Dictionaries and encyclopedias
 - Communication of ornithological information
 - 672.5 Ornithological literature
 - 672.6 Language. Authorship
 - History
 - 672.7 General works
 - 672.73.A-Z By region or country, A-Z
 - 673 General works, treatises, and textbooks
 - 674 Pictorial works and atlases
 - 674.4 Ornithological illustration
 - 675 Birds' eggs and nests
 - 676 Popular works
 - 676.2 Juvenile works

Chordates. Vertebrates

Birds -- Continued

Bird protection. Bird refuges. Important bird areas. Bird attracting

Including birdhouses, bird feeders, birdcall whistles, and gardening to attract birds

Cf. SK351+ Wildlife management. Game protection

676.5

General works

By region or country

United States

676.55

General works

676.56.A-Z

By region or state, A-Z

676.57.A-Z

Other regions or countries, A-Z

676.7

Rare and endangered species

For local see QL676.55+

676.8

Extinct birds

677

Classification. Nomenclature

677.2

Catalogs and collections

677.3

Evolution

677.4

Population dynamics

For mortality see QL698.25

677.5

Study and teaching. Research

Including census taking, bird banding, and general works on bird watching and birding sites

677.7

Collection and preservation

677.75

Dangerous birds

677.78

Birds of prey. Raptors

Cf. QL696.F3+ Falconiformes

Cf. QL696.S8+ Strigiformes

677.79.A-Z

Other types of birds, A-Z

677.79.C38

Cavity-nesting birds

677.79.E85

Exotic birds

677.79.F55

Flightless birds

677.79.F67

Forest birds

Game birds

see SF508+ Animal culture; SK311+ Hunting

677.79.G73

Grassland birds

677.79.I58

Introduced birds

677.79.N63

Nocturnal birds

Ornamental birds see SF512+

677.79.P37

Parasitic birds

677.79.P57

Piscivorous birds

Talking birds see SF462.8

Water birds see QL678.5+

677.8

Aviaries. Bird exhibitions

Chordates. Vertebrates

Birds -- Continued

Geographical distribution

For geographical distribution of systematic divisions
see QL696.A+

678

General works

Physiographic divisions

For birds of a particular region or country or off the coast of
a particular region or country see QL680+

Aquatic birds. Water birds

Including shore birds

For waterfowl see SF510.W3 Animal culture; SK331+
Hunting

678.5

General works

Marine birds. Sea birds

678.52

General works

By region

678.55

Atlantic Ocean

678.6

Indian Ocean

678.65

Pacific Ocean

Topographical divisions

679

Zone divisions

e.g. Palaeartic region

America

680

General works

North America and United States

681

General works

United States

682

General works

683.A-Z

By region, A-Z

684.A-.W

By state, A-W

Canada

685

General works

685.5.A-Z

By region or province, A-Z

Latin America

685.7

General works

686

Mexico

687

Central America (Table Q3)

688

West Indies (Table Q3)

689

South America (Table Q3)

690

Europe (Table Q3)

691

Asia (Table Q3)

691.5

Arab countries (General)

692

Africa (Table Q3)

Australasia

692.8

General works

Australia

Chordates. Vertebrates

Birds

Geographical distribution

Australasia

Australia -- Continued

693

General works

693.3.A-Z

By state, territory, or region, A-Z

693.5

New Zealand

694

Pacific islands (Table Q3)

694.5

Atlantic islands (Table Q3)

694.7

Indian Ocean islands (Table Q3)

695

Arctic regions

695.2

Antarctica

695.5

Tropics

696.A-Z

Systematic divisions. By order and family, A-Z

Accipitriformes see QL696.F3+

Alciformes see QL696.C4+

Anseriformes

696.A5

General works

696.A52

Anatidae (Ducks; geese; swans)

696.A53

Anhimidae (Screamers)

Apodiformes

696.A55

General works

696.A552

Apodidae (Swifts)

696.A554

Hemiprocnidae (Crested swifts)

696.A558

Trochilidae (Hummingbirds)

Apterygiformes

696.A6

General works

696.A63

Apterygidae (Kiwis)

Ardeiformes see QL696.C5+

Caprimulgiformes

696.C2

General works

696.C22

Aegothelidae (Owlet frogmouths)

696.C23

Caprimulgidae (Goatsuckers)

696.C25

Nyctibiidae (Potoos)

696.C26

Podargidae (Frogmouths)

696.C28

Steatornithidae (Oilbirds)

Casuariiformes

696.C3

General works

696.C33

Casuariidae (Cassowaries)

696.C34

Dromiceidae (Emus)

Charadriiformes

696.C4

General works

696.C42

Alcidae (Auks; auklets; murre)

696.C428

Burhinidae (Thick-knees)

696.C43

Charadriidae (Plovers; turnstones; surfbirds)

696.C435

Chionididae (Sheathbills)

Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Charadriiformes -- Continued

- 696.C44 Dromadidae (Crab plovers)
 696.C448 Glareolidae (Pratincoles; coursers)
 696.C452 Haematopodidae (Oystercatchers)
 696.C457 Jacanidae (Jacanas)
 696.C46 Laridae (Gulls; terns; skuas; jaegers)
 696.C465 Pedionomidae
 (696.C47) Phalaropodidae (Phalaropes)
 see QL696.C48
 696.C473 Recurvirostridae (Avocets; stilts)
 696.C477 Rostratulidae (Painted snipes)
 696.C479 Rynchopidae (Skimmers)
 696.C48 Scolopacidae (Snipes; woodcocks; sandpipers;
 phalaropes)
 (696.C488) Stercorariidae
 see QL696.C46
 696.C49 Thinocoridae (Seedsnipes)

Ciconiiformes

- 696.C5 General works
 696.C52 Ardeidae (Hérons; bitterns)
 696.C525 Balaenicipitidae (Shoebill)
 696.C53 Cathartidae (New World vultures)
 696.C535 Ciconiidae (Storks; jabirus)
 696.C536 Cochleariidae (Boatbilled herons)
 696.C56 Phoenicopteridae (Flamingos)
 696.C58 Scopidae (Hammerheads)
 696.C585 Threskiornithidae (Ibises; spoonbills)

Coccyges see QL696.C8+

Coliiformes

- 696.C59 General works
 696.C593 Coliidae (Colies)

Columbiformes

- 696.C6 General works
 696.C63 Columbidae (Pigeons; doves)
 696.C66 Pteroclididae (Sandgrouses)
 696.C67 Raphidae (Dodos; solitaires)

Coraciiformes

- 696.C7 General works
 696.C72 Alcedinidae (Kingfishers)
 696.C725 Brachypteraciidae (Groundrollers)
 696.C729 Bucerotidae (Hornbills)
 696.C73 Coraciidae (Rollers)
 696.C74 Leptosomatidae (Cuckoo rollers)
 696.C754 Meropidae (Bee-eaters)

Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Coraciiformes -- Continued

- 696.C756
(696.C77) Momotidae (Motmots)
Phoeniculidae (Wood hoopoes)
see QL696.U66
- 696.C78
(696.C79) Todidae (Todies)
Upupidae (Hoopoes)
see QL696.U68

Cuculiformes

- 696.C8 General works
696.C83 Cuculidae (Cuckoos; roadrunners; anis)
696.C85 Musophagidae (Plaintain-eaters; touracos)

Cypseliformes see QL696.A55+

Falconiformes

- 696.F3 General works
696.F32 Accipitridae (Hawks; Old World vultures; harriers)
Including vultures (General)
(696.F33) Cathartidae (New World vultures)
see QL696.C53
- 696.F34 Falconidae (Falcons; caracaras)
696.F36 Pandionidae (Ospreys)
696.F38 Sagittariidae (Secretarybirds)

Galliformes

- 696.G2 General works
696.G23 Cracidae (Curassows; guans; chachalacas)
696.G25 Megapodiidae (Megapodes)
(696.G254) Meleagrididae (Turkeys)
see QL696.G27
- 696.G258 Numididae (Guineafowl)
696.G259 Odontophoridae (New World quails)
696.G26 Opisthocomidae (Hoatzins)
696.G27 Phasianidae (Pheasants, Old World quails, grouse,
partridges, peafowls, turkeys)
(696.G285) Tetraonidae (Grouse)
see QL696.G27

Gaviiformes

- 696.G3 General works
696.G33 Gaviidae (Loons)

Gruiformes

- 696.G8 General works
696.G82 Aramidae (Limpkins)
696.G827 Cariamidae (Seriemas)
696.G83 Eurypgidae (Sunbitterns)
696.G84 Gruidae (Cranes)
696.G845 Heliornithidae (Sungrebes)

Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Gruiformes -- Continued

- 696.G85 Mesitornithidae (Roatelos)
 696.G86 Otididae (Bustards)
 Pedionomidae see QL696.C465
 696.G874 Psophiidae (Trumpeters)
 696.G876 Rallidae (Rails; coots)
 696.G878 Rhynochetidae (Kagus)
 696.G89 Turnicidae (Bustardquails)

Halcyones see QL696.C72

Lariformes see QL696.C46

Limicolae see QL696.C4+

Meropidae see QL696.C754

Musophagiformes see QL696.C85

Passeriformes

- 696.P2 General works
 696.P212 Acanthisittidae (New Zealand wrens)
 696.P213 Acanthizidae (Australasian warblers)
 696.P2135 Aegithalidae (Long-tailed tits; bushtits)
 Aegithinidae see QL696.P2344
 696.P214 Alaudidae (Larks)
 696.P216 Artamidae (Woodswallows; currawongs; Australian
 butcherbirds)
 696.P218 Atrichornithidae (Scrubbirds)
 696.P22 Bombycillidae (Waxwings)
 696.P224 Callaeidae (Wattled crows; huias; saddlebacks)
 696.P225 Campephagidae (Cuckoo shrikes)
 696.P228 Catamblyrhynchidae (Plushcapped finches)
 696.P23 Certhiidae (Creepers)
 696.P234 Chamaeidae (Wrentits)
 696.P2344 Chloropseidae (Leafbirds)
 696.P235 Cinclidae (Dippers)
 696.P2354 Climacteridae (Australasian treecreepers)
 696.P236 Coerebidae (Honeycreepers)
 696.P2365 Conopophagidae (Antpipits)
 696.P2367 Corvidae (Crows; magpies; jays)
 696.P2368 Cotingidae (Cotingas)
 (696.P237) Cracticidae
 see QL696.P216
 696.P239 Cyclarhidae (Peppershrikes)
 696.P24 Dendrocolaptidae (Woodhewers)
 696.P242 Dicaeidae (Flowerpeckers)
 696.P2427 Dicuridae (Drongos)
 (696.P243) Drepanididae (Hawaiian honeycreepers)
 see QL696.P246

Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Passeriformes -- Continued

- 696.P2435 Dulidae (Palmchats)
 696.P2438 Emberizidae (Buntings; American sparrows; wood warblers)
 696.P2439 Eopsaltriidae (Australian robins)
 696.P244 Estrildidae (Waxbills)
 696.P245 Eurylaimidae (Broadbills)
 696.P2455 Formicariidae (Ant thrushes)
 696.P246 Fringillidae (Finches; Hawaiian honeycreepers)
 696.P2464 Furnariidae (Ovenbirds)
 696.P2468 Grallinidae (Magpie larks)
 696.P247 Hirundinidae (Swallows)
 696.P2474 Hyposittidae (Caral billed nuthatches)
 696.P2475 Icteridae (Blackbirds; troupials)
 Irenidae see QL696.P2585
 696.P248 Laniidae (Shrikes)
 696.P2485 Maluridae (Australian wrens)
 696.P249 Meliphagidae (Honeyeaters)
 696.P2495 Menuridae (Lyrebirds)
 696.P25 Mimidae (Thrashers; mockingbirds)
 696.P252 Motacillidae (Wagtails; pipits)
 696.P255 Muscicapidae (Old World flycatchers)
 696.P257 Nectariniidae (Sunbirds)
 696.P2585 Oriolidae (Old World flycatchers)
 696.P259 Oxyruncidae (Sharpbills)
 696.P2595 Pachycephalidae
 696.P26 Paradisaeidae (Birds of paradise)
 696.P2612 Paradoxornithidae (Parrotbills; suthoras)
 696.P2615 Paridae (Titmice; chickadees)
 (696.P2618) Parulidae
 see QL696.P2438
 696.P262 Passeridae
 696.P2625 Philepittidae (Asities; false sunbirds)
 696.P2629 Phytotomidae (Plantcutters)
 696.P263 Pipridae (Manakins)
 696.P2634 Pittidae (Pittas)
 696.P264 Ploceidae (Weaverbirds)
 696.P265 Prionopidae (Weaverbirds)
 696.P266 Prunellidae (Accentors)
 696.P267 Ptilogonatidae (Silky flycatchers)
 696.P2675 Ptilonorhynchidae (Bowerbirds)
 696.P268 Pycnonotidae (Bulbuls)
 696.P27 Regulidae (Kinglets)
 696.P272 Remizidae

Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Passeriformes -- Continued

- 696.P273 Rhinocryptidae (Tapaculos)
- 696.P275 Sittidae (Nuthatches)
- 696.P278 Sturnidae (Starlings)
- 696.P279 Sylviidae (Old World warblers)
- 696.P28 Tersinidae (Swallow tanagers)
- 696.P2816 Thamnophilidae (Typical antbirds)
- 696.P282 Thraupidae (Tanagers)
- 696.P285 Timaliidae (Babblers)
- 696.P287 Troglodytidae (Wrens)
- 696.P288 Turdidae (Thrushes)
- 696.P289 Tyrannidae (Tyrant flycatchers)
- 696.P29 Vangidae (Vangas)
- 696.P294 Vireolaniidae (Shrike vireos)
- 696.P2945 Vireonidae (Vireos)
- 696.P296 Zeledoniidae (Wrenthrushes)
- 696.P298 Zosteropidae (White-eyes)

Pelecaniformes

- 696.P4 General works
- 696.P42 Anhingidae (Snake-birds)
- 696.P45 Fregatidae (Frigate birds)
- 696.P47 Pelecanidae (Pelicans)
- 696.P474 Phaethontidae (Tropicbirds)
- 696.P4745 Phalacrocoracidae (Cormorants)
- 696.P48 Sulidae (Boobies; gannets)

Phoenicopteriformes see QL696.C56

Piciformes

- 696.P5 General works
- 696.P52 Bucconidae (Puffbirds)
- 696.P53 Capitonidae (Barbets)
- 696.P54 Galbulidae (Jacamars)
- 696.P55 Indicatoridae (Honeyguides)
- 696.P56 Picidae (Woodpeckers)
- 696.P57 Ramphastidae (Toucans)

Podicipediformes

- 696.P58 General works
- 696.P586 Podicipedidae (Grebes)

Procellariiformes

- 696.P6 General works
- 696.P63 Diomedidae (Albatrosses)
- 696.P64 Hydrobatidae (Storm petrels)
- 696.P66 Pelecanoididae (Diving petrels)
- 696.P665 Procellariidae (Shearwaters; fulmars)
- 696.P7 Psittaciformes (Parrots)

Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z -- Continued

Puffinidae see QL696.P665

Pygopodes see QL696.P586

Pygopodes (Gaviidae) see QL696.G33

Rhamphastidae see QL696.P57

Rheiformes

696.R37 General works

696.R4 Rheidae (Rheas)

Scansores

see QL671+

Sphenisciformes

696.S47 General works

696.S473 Spheniscidae (Penguins)

Steganopodes see QL696.P4+

Strigiformes

696.S8 General works

696.S83 Strigidae (Owls)

696.S85 Tytonidae (Barn owls)

Struthioniformes

696.S87 General works

696.S9 Struthionidae (Ostriches)

Tinamiformes

696.T37 General works

696.T4 Tinamidae (Tinamous)

Trochili see QL696.A558

Trogoniformes

696.T67 General works

696.T7 Trogonidae (Trogons)

Upupiformes

696.U6 General works

696.U66 Phoeniculidae (Wood hoopoes)

696.U68 Upupidae (Hoopoes)

696.5

Genetics

Anatomy and morphology

697 General works

697.4 Feathers. Plumage

698 Physiology

698.2 Reproduction

698.25 Mortality

698.26 Effect of roads

698.3 Behavior

Including social life and instinct

Eggs and nests see QL675

Bird banding see QL677.5

698.4 Food

Chordates. Vertebrates

Birds -- Continued

- 698.5 Song. Vocalization
- 698.7 Flight
- 698.8 Navigation
- 698.85 Orientation
- 698.9 Migration
- 698.95 Ecology
- 699 Miscellany and curiosa
 - For birds of the Bible see BS664

Mammals

- 700 Periodicals, societies, congresses, serial publications
- 701 Collected works (nonserial)
- 701.2 Dictionaries and encyclopedias
- Communication of information
- 701.5 General works
- 701.6 Information services
- 701.8 Computer network resources
 - Including the Internet
- 702 Mammalogical literature
- 703 General works, treatises, and textbooks
- 704 Compendis
- 705 Pictorial works and atlases
- 706 Popular works
 - For popular works on domestic animals see SF41
- 706.2 Juvenile works
- 706.4 Study and teaching. Research
- 706.5.A-Z Special topics, A-Z
- 706.5.D38 Data processing
- Rare and endangered species
- 706.8 General works
- 706.83.A-Z By region or country, A-Z
- 707 Extinct mammals
- 708 Classification. Nomenclature
- 708.2 Catalogs and collections
- 708.4 Collection and preservation
- 708.5 Evolution. Speciation
- 708.6 Population dynamics
- Geographical distribution
 - For geographical distribution of systematic divisions
see QL737.A+
- 708.7 General works
- Physiographic divisions
 - Aquatic
 - 713 General works
 - Marine
 - 713.2 General works

Chordates. Vertebrates

Mammals

Geographical distribution

Physiographic divisions

Aquatic

Marine -- Continued

By region

For marine mammals of a particular region or
country or off the coast of a particular region
or country see QL715+

Atlantic Ocean

713.25 General works

713.28 North Atlantic Ocean

713.35 Pacific Ocean

Topographical divisions

North America

715 General works

United States

717 General works

719.A-Z By region or state, A-Z

Canada

721 General works

721.5.A-Z By region or province, A-Z

Latin America

721.8 General works

722 Mexico

723 Central America (Table Q3)

724 West Indies (Table Q3)

725 South America (Table Q3)

Europe

726 General works

727 Great Britain

728.A-Z Other regions or countries, A-Z

729 Asia (Table Q3)

731 Africa (Table Q3)

732 Indian Ocean islands (Table Q3)

Australasia

732.8 General works

Australia

733 General works

733.5.A-Z By state, territory, or region, A-Z

734 New Zealand

735 Pacific islands (Table Q3)

736 Arctic regions. Greenland

736.2 Antarctica

736.5 Tropics

737.A-Z Systematic divisions. By order and family, A-Z

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z -- Continued

Afrosoricida. Tenrecomorpha

- 737.A35 General works
- 737.A352 Chrysochloridae (Golden moles)
- 737.A357 Tenrecidae (Tenrecs)

Carnivora

- 737.C2 General works
- 737.C214 Ailuridae (Red panda)
- 737.C22 Canidae (Dogs)
 - For domestic dogs see SF421+
- 737.C23 Felidae (Cats)
 - For domestic cats see SF441+
- 737.C235 Herpestidae (Mongoose)
- 737.C24 Hyaenidae (Hyenas)
- 737.C248 Mephitidae (Skunks)
- 737.C25 Mustelidae (Weasels; badgers; otters)
- 737.C26 Procyonidae (Raccoons)
- 737.C27 Ursidae (Bears; giant panda)
- 737.C28 Viverridae (Civets, etc.)

Cetacea

- 737.C4 General works
- Mysticeti (Baleen whales)
 - 737.C42 General works
 - 737.C423 Balaenidae (Right whales)
 - 737.C424 Balaenopteridae (Rorquals)
 - 737.C425 Eschrichtiidae (Gray whales)
 - 737.C427 Neobalaenidae
- Odontoceti (Toothed whales)
 - 737.C43 General works
 - 737.C432 Delphinidae (Dolphins)
 - Iniidae see QL737.C436
 - Lipotidae see QL737.C436
 - 737.C433 Monodontidae (Narwhal; white whale)
 - 737.C434 Phocoenidae (Porpoises)
 - 737.C435 Physeteridae (Sperm whales)
 - 737.C436 Platanistidae (River dolphins)
 - Pontoporiidae see QL737.C436
 - Stenidae see QL737.C432
 - 737.C438 Ziphiidae (Beaked whales)

Chiroptera

- 737.C5 General works
- 737.C513 Craseonycteridae
- 737.C52 Desmodontidae (Vampires)
- 737.C525 Emballonuridae (Sac-winged bats)
- 737.C53 Furipteridae (Smoky bats)

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Chiroptera -- Continued

- 737.C533 Hipposideridae (Old World leaf-nosed bats)
 737.C535 Megadermatidae (False vampires)
 737.C54 Molossidae (Free-tailed bats)
 737.C543 Mormoopidae
 737.C545 Mystacinidae (New Zealand short-tailed bats)
 737.C55 Myzopodidae (Old World sucker-footed bats)
 737.C555 Natalidae (Funnel-eared bats)
 737.C56 Noctilionidae (Fisherman bats)
 737.C565 Nycteridae (Slit-faced bats)
 737.C57 Phyllostomidae (American leaf-nosed bats)
 737.C575 Pteropodidae (Old World fruit bats)
 737.C58 Rhinolophidae (Horseshoe bats)
 737.C585 Rhinopomatidae (Mouse-tailed bats)
 737.C59 Thyropteridae (Disk-winged bats)
 737.C595 Vespertilionidae

Dermoptera

- 737.D35 General works
 737.D4 Cynocephalidae (Flying lemurs)

Edentata. Xenarthra

- 737.E2 General works
 737.E22 Bradypodidae (Three-toed tree sloths)
 737.E23 Dasypodidae (Armadillos)
 737.E238 Megalonychidae (Two-toed tree sloths)
 737.E24 Myrmecophagidae (Anteaters)

Erinaceomorpha

- 737.E75 General works
 737.E753 Erinaceidae (Hedgehogs)

Hyracoidea

- 737.H85 General works
 737.H9 Procaviidae (Hyraxes)

Insectivora. Insectivores

- 737.I5 General works
 (737.I52) Chrysochloridae
 see QL737.A352
 (737.I53) Erinaceidae
 see QL737.E753
 (737.I54) Macroscelididae (Elephant shrews)
 see QL737.M242
 (737.I545) Potamogalidae
 QL737.S73
 (737.I55) Solenodontidae
 see QL737.S74

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Insectivora. Insectivores -- Continued

(737.I56)

Soricidae

see QL737. S75

(737.I57)

Talpidae

see QL737.S76

(737.I58)

Tenrecidae

see QL737.A357

Lagomorpha

737.L3

General works

737.L32

Leporidae (Rabbits; hares)

737.L33

Ochotonidae (Pikas)

Macroscelidea

737.M24

General works

737.M242

Macroscelididae (Elephant shrews)

Marsupialia. Marsupials

737.M3

General works

Dasyuromorphia

737.M325

General works

737.M33

Dasyuridae (Marsupial mice, Marsupial cats)

737.M335

Myrmecobiidae (Numbat)

737.M336

Thylacinidae (Thylacine)

Didelphimorphia

737.M337

General works

737.M34

Didelphidae (American opossums)

Diprotodontia

737.M345

General works

737.M346

Acrobatidae

737.M347

Burramyidae (Pygmy possums)

737.M348

Hypsiprymnodontidae (Rat-kangaroos)

Cf. QL737.M386 Potoroidae

737.M35

Macropodidae (Kangaroos, wallabies)

737.M373

Petauridae

737.M38

Phalangeridae (Phalangers)

737.M384

Phascolarctidae (Koalas)

737.M386

Potoroidae (Bettongs, potoroos, rat-kangaroos)

Cf. QL737.M348 Hypsiprymnodontidae

737.M387

Pseudocheiridae

737.M3875

Tarsipedidae

737.M39

Vombatidae (Wombats)

Microbiotheria

737.M43

General works

737.M435

Microbiotheriidae

Notoryctemorphia

737.M44

General works

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Marsupialia

Notoryctemorphia -- Continued

737.M445 Notoryctidae (Marsupial moles)

Paucituberculata

737.M46 General works

737.M463 Caenolestidae (Rat opossums)

Peramelemorphia (Bandicoots)

737.M47 General works

737.M475 Peramelidae

(737.M476) Peroryctidae

see QL737.M475

737.M478 Thylacomyidae (Bilbies)

Monotremata

737.M7 General works

737.M72 Ornithorhynchidae (Platypus)

737.M73 Tachyglossidae (Echidnas)

Pholidota

737.P4 General works

737.P5 Manidae (Pangolins)

Pinnipedia

737.P6 General works

737.P62 Odobenidae (Walrus)

737.P63 Otariidae (Eared seals)

737.P64 Phocidae (Seals)

Primates

737.P9 General works

737.P915 Atelidae (Howler monkeys; miquis; spider monkeys,
woolly monkeys)

(737.P917) Callimiconidae

see QL737.P925

(737.P92) Callitrichidae

see QL737.P925

737.P925 Cebidae (Marmosets; tamarins; squirrel monkeys,
capuchin monkeys)

737.P93 Cercopithecidae (Old World monkeys)

737.P933 Cheirogaleidae

737.P935 Daubentoniidae (Aye-ayes)

737.P937 Galagonidae (Galagos)

737.P94 Hominidae (Great apes: chimpanzees; gorillas;
orangutans)

For humans see GN49+

737.P943 Hylobatidae (Lesser apes: gibbons; siamang)

737.P945 Indridae

737.P95 Lemuridae (Large lemurs)

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Primates -- Continued

- 737.P955 Lorisidae (Lorises; pottos)
 737.P957 Nyctipithecidae (Night monkeys)
 737.P959 Pitheciidae (Sakis; titis; uakaris)
 (737.P96) Pongidae (Apes)
 see QL737.P94+
 737.P965 Tarsiidae (Tarsiers)
 (737.P968) Tupaiidae (Tree shrews)
 see QL737.S254

Proboscidea

- 737.P97 General works
 737.P98 Elephantidae (Elephants)

Rodentia

- 737.R6 General works
 737.R62 Abrocomidae
 737.R623 Agoutidae (Pacas)
 737.R624 Anomaluridae (Scaly-tailed squirrels)
 737.R626 Aplodontidae (Mountain beavers)
 737.R628 Bathyergidae (African mole rats)
 737.R63 Capromyidae (Hutias)
 737.R632 Castoridae (Beavers)
 737.R634 Caviidae (Cavies)
 737.R636 Chinchillidae (Chinchillas)
 (737.R638) Cricetidae (New World rats and mice)
 see QL737.R666
 737.R64 Ctenodactylidae (Gundis)
 737.R642 Ctenomyidae (Tucu-tucos)
 737.R644 Dasyproctidae (Agoutis; acouchis)
 737.R646 Dinomyidae (Pacaranas)
 737.R648 Dipodidae (Jerboas; birch mice; jumping mice)
 737.R65 Echimyidae (Spiny rats)
 737.R652 Erethizontidae (New World porcupines)
 737.R654 Geomyidae (Pocket gophers)
 737.R656 Gliridae (Dormice)
 737.R66 Heteromyidae (Pocket mice; kangaroo rats)
 737.R662 Hydrochaeridae (Capybara)
 737.R664 Hystricidae (Old World porcupine)
 737.R666 Muridae (Mice; rats; voles; lemmings; gerbils;
 hamsters)
 737.R668 Myocastoridae (Coypu; nutria)
 737.R67 Octodontidae
 737.R672 Pedetidae (Springhares)
 737.R674 Petromuridae

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Rodentia -- Continued

(737.R676)

Platacanthomyidae

see QL737.R666

(737.R678)

Rhizomyidae

see QL737.R666

737.R68

Sciuridae (Squirrels)

737.R682

Seleviniidae (Desert dormice)

737.R684

Spalacidae

see QL737.R666

737.R686

Thryonomyidae (Cane rats)

(737.R688)

Zapodidae

see QL737.R648

Scandentia

737.S25

General works

737.S254

Tupaidae (Tree shrews)

Sirenia

737.S6

General works

737.S62

Dugongidae (Dugongs)

737.S63

Trichechidae (Manatees)

Soricomorpha

737.S7

General works

737.S73

Potamogalidae (Water shrews)

737.S74

Solenodontidae (Solenodons)

737.S75

Soricidae (Shrews)

737.S76

Talpidae (Moles)

Tubulidentata

737.T75

General works

737.T8

Orycteropodidae (Aardvarks)

Ungulata

737.U4

General works

Artiodactyla (Even-toed ungulates)

737.U5

General works

737.U52

Antilocapridae (Pronghorn)

737.U53

Bovidae

For domestic cattle, sheep, and goats see SF1+

737.U54

Camelidae (Camels)

737.U55

Cervidae (Deer)

737.U56

Giraffidae

737.U57

Hippopotamidae (Hippopotami)

737.U575

Moschidae (Musk deer)

737.U58

Suidae (Old World pigs)

For domestic swine see SF391+

737.U59

Tayassuidae (Peccaries)

737.U595

Tragulidae (Chevrotains)

Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Ungulata -- Continued

Perissodactyla (Odd-toed ungulates)

737.U6

General works

737.U62

Equidae (Horses)

For domestic horses see SF277+

737.U63

Rhinocerotidae (Rhinoceroses)

737.U64

Tapiridae (Tapirs)

Xenarthra see QL737.E2+

738

Miscellany and curiosa

738.5

Genetics

739

Anatomy and morphology

For anatomy of domestic animals see SF761+

Cf. QL801+ Comparative anatomy

739.15

Cytology

Physiology

For physiology of domestic animals see SF768+

Cf. QP1+ Animal physiology

739.2

General works

739.23

Reproduction

739.25

Age determination

Behavior

739.3

General works

739.5

Migration

739.8

Ecology

Animal behavior

Class here general works on animal behavior and general works on particular types of animal behavior

For works on the behavior of special groups or individual animals, see QL360+

For comparative psychology and behavior of animals and humans see BF660+

For works on the behavior of special groups of domestic animals or individual domestic animals see SF756.7

750

Periodicals, societies, congresses, serial publications

750.3

Dictionaries and encyclopedias

750.5

History

751

General works, treatises, and textbooks

Cf. QH540+ General and animal ecology

Cf. SF1+ Animal culture

751.5

Juvenile works

751.6

Addresses, essays, lectures

751.65.A-Z

Special aspects of the subject as a whole, A-Z

751.65.D37

Data processing

751.65.M3

Mathematical models

Animal behavior

Special aspects of the subject as a whole, A-Z -- Continued

751.65.M32

Mathematics

751.65.S55

Simulation methods

751.65.S73

Statistical methods

751.7

Laboratory manuals

Special topics

Behavioral endocrinology. Endocrine aspects of animal behavior see QP356.45

752

Animal populations

For population studies of a particular group of animals, see systematic sections

Cf. QL607.6 Vertebrate population dynamics

Cf. QL618.3 Fish population dynamics

Cf. QL677.4 Bird population dynamics

Periodicity. Seasonal habits

753

General works

754

Migration. Migratory animals

Cf. QL496.2 Migration of insects

Cf. QL639.5 Migration of fishes

Cf. QL698.9 Migration of birds

Cf. QL739.3 Migration of mammals

755

Hibernation

Sleep behavior

755.3

General works

755.5

Nocturnal animals

Habitations

756

General works

756.15

Burrowing. Burrowing animals

756.2

Territoriality

Food

756.5

General works

756.55

Bloodsucking animals

756.56

Browsing

756.57

Cannibalism

756.6

Health behavior. Medicinal use

756.7

Drug use

756.8

Symbiosis

757

Parasitology

Cf. QL392.A1+ Helminthology

Cf. QL496.12 Parasitic insects and parasitoids

Cf. RC119+ Parasitic diseases of man

Cf. SF810.A3+ Parasitic diseases of animals

758

Predation. Predatory animals

Cf. SF810.5+ Predator control

758.5

Aggression. Agonistic behavior

Cf. QL100.5 Animal attacks

- Animal behavior
- Special topics -- Continued
- 758.7 Reconciliation
- 759 Defense mechanisms
- 760 Grooming behavior
- 761 Sexual behavior
- 761.5 Familial behavior. Kin recognition
- 762 Parental behavior
- 762.5 Infanticide
- Developmental behavior
- 763 General works
- 763.2 Critical periods. Imprinting
- 763.5 Play behavior
- 765 Sound production. Vocalization
Cf. QL496.5 Insect sounds
- 767 Color
- 768 Animal tracks and signs
Including droppings
Cf. SK282 Tracking
- 775 Social relations. Animal societies
Cf. QL364.5 Coloniality
- 775.5 Altruistic behavior
- 776 Communication
- 780 Eliminative behavior
- 781 Instinct
- 781.3 Motivation
- 782 Navigation
Cf. QL698.8 Navigation by birds
- 782.5 Orientation
- 783 Swarming
- Psychology. Intelligence. Learning
- 785 General works
- 785.2 Memory
Cf. QP406 Physiology
- 785.24 Number concept
- 785.25 Consciousness
- 785.27 Emotions
- 785.3 Extrasensory perception
- (785.5) Special animals
see QL362+ or SF (Domestic animals)
- Stories and anecdotes
- For circus animals see GV1829+
- For animals in television see PN1992.8.A58
- For animals in motion pictures see PN1995.9.A5
- For domesticated animals see SF1+
- For wild animals as pets see SF459.A+
- 791 General works

Animal behavior

Stories and anecdotes -- Continued

- 793 Famous animals
- 795.A-Z Special. By common name of animal, A-Z
- 795.A35 African wild dog
- 795.A4 Alligators
- 795.A6 Antelopes
- 795.A8 Asses, Wild
- 795.B2 Badgers
- 795.B3 Bats
- 795.B4 Bears
- 795.B5 Beavers
- 795.B53 Bees
- 795.B57 Birds
Cf. SF460+ Cage birds
- 795.B6 Bison
- Black eagle see QL795.B57
- 795.B8 Buffaloes
- 795.B85 Butterflies
- Canada goose see QL795.B57
- 795.C2 Cats, Wild
Cf. SF445.5 Stories about domestic cats
- 795.C3 Cattle, Wild
Cf. SF197.4 Stories about domestic cattle
- 795.C5 Chamois
- 795.C54 Cheetahs
- 795.C57 Chimpanzees
- 795.C6 Coyotes
- 795.C65 Crabs
- 795.C67 Crocodiles
- 795.D3 Deer
- 795.D5 Dingoes
- 795.D6 Dogs
Cf. SF426.2 Stories about domestic dogs
- 795.D7 Dolphins
- Ducks, Wild see QL795.B57
- 795.E4 Elephants
- 795.E94 European wildcat
- 795.F65 Fireflies
- 795.F7 Fishes
- 795.F8 Foxes
- 795.F85 Frogs
- 795.G3 Gazelles
- 795.G5 Gibbons
- 795.G55 Giraffe
- 795.G7 Gorillas
- 795.H3 Hamsters

Animal behavior

Stories and anecdotes

Special. By common name of animal, A-Z -- Continued

| | |
|---------|---|
| 795.H35 | Hares |
| 795.H4 | Hedgehogs |
| 795.H6 | Hippopotami |
| 795.H65 | Hornets |
| 795.H7 | Horses, Wild |
| | Cf. SF301 Stories about domestic horses |
| 795.J27 | Jackals |
| 795.J3 | Jaguars |
| 795.K3 | Kangaroos |
| 795.K62 | Koalas |
| 795.L5 | Leopards |
| 795.L7 | Lions |
| 795.L9 | Lynxes |
| 795.M3 | Marmots |
| 795.M37 | Mice |
| 795.M5 | Minks |
| 795.M57 | Moles |
| 795.M6 | Mongoose |
| 795.M7 | Monkeys |
| 795.M8 | Moose |
| | Mules see SF362 |
| 795.M85 | Musk-oxen |
| 795.M87 | Muskrats |
| 795.O7 | Orangutans |
| 795.O8 | Otters |
| 795.P18 | Pandas |
| 795.P2 | Panthers |
| 795.P28 | Peccaries |
| | Ponies, Wild see QL795.H7 |
| 795.P6 | Porcupines |
| 795.P85 | Pumas |
| | Rabbits, Wild see QL795.H35 |
| 795.R15 | Raccoons |
| 795.R2 | Rats |
| 795.R4 | Reindeer |
| 795.R45 | Rhinoceroses |
| 795.R5 | Ring-tailed phalangers |
| 795.S3 | Salamanders |
| | Sea otters see QL795.O8 |
| 795.S43 | Seals |
| 795.S46 | Sharks |
| 795.S47 | Shrews |
| 795.S55 | Skunks |
| 795.S6 | Sloths |

Animal behavior

Stories and anecdotes

Special. By common name of animal, A-Z -- Continued

795.S65

Snakes

795.S7

Squirrels

795.S9

Swine

795.T47

Thylacine

795.T5

Tigers

795.T8

Turtles

795.W4

Weasels

795.W5

Whales

795.W6

Wild boars

Wild dog, African see QL795.A35

795.W8

Wolves

795.W83

Wombats

795.Z42

Zebras

Morphology

Class here general works on animal form, structure, body size, etc.

For particular animals, see QL363+

799

General works, treatises, and textbooks

799.3

Juvenile works

799.5

Study and teaching. Research

Anatomy

Here are classified general works on comparative anatomy and special works on the anatomy of individual organs.

For works on the general anatomy or the anatomy of specific organs of special groups of animals, see the preceding systematic divisions or SF Domestic animals

For invertebrate anatomy see QL363

For human anatomy see QM1+

801

Periodicals, societies, congresses, serial publications

803

Collected works (nonserial)

803.3

Dictionaries

803.5

Nomenclature, terminology, notation, abbreviations

804

Early works through 1800

805

General works, treatises, and textbooks

806

Pictorial works and atlases

806.5

Juvenile works

807

Comparative histology

For special tissues see QM559+

808

Addresses, essays, lectures

Study and teaching. Research

810

General works

810.5

Problems, exercises, examinations

811

Outlines, syllabi

Laboratory manuals

Anatomy

Study and teaching. Research

Laboratory manuals -- Continued

- 812 General works
 812.5 Dissection
 813.A-Z By laboratory animal, A-Z
 For specific organs or parts of the body, see QL821+
- 813.C38 Cats
 813.D64 Dogs
 Dogfish shark see QL813.F57
 813.F57 Fishes
 813.F75 Frogs
 813.G63 Goats
 813.G73 Grasshoppers
 813.H35 Hamsters
 813.M55 Mice
 813.M56 Minks
 Perch see QL813.F57
 813.P54 Pigs. Swine
 813.R3 Rabbits
 813.R37 Rats
 Sharks see QL813.F57
 813.S69 Squids
- Museums. Exhibitions
 814.A1 General works
 814.A2-Z By region or country, A-Z
 Subarrange each country by Table Q5
- Skeleton. Osteology
 For histology see QM569
- 821 General works
 822 Skull
 823 Catalogs of specimens
 825 Articulations
 827 Ligaments
- 831 Muscles
 For histology see QM571
- Vascular system
 835 Blood vessels
 838 Heart
 841 Lymphatics
- Respiratory organs
 845 General works
 846 Branchiae (Gills)
 847 Tracheae in Arthropoda
 848 Lungs
 849 Pleura
 851 Diaphragm

Anatomy

Respiratory organs -- Continued

- 852 Respiratory passages
- 853 Larynx
- 854 Trachea. Bronchi
- 855 Air sacs, swimming bladders, etc.

Digestive organs

- 856 General works
- 857 Mouth
- 858 Teeth
- 861 Pharynx. Esophagus. Tonsils
- 862 Stomach
- 863 Intestines
- 863.5 Peritrophic membranes
- 864 Peritoneum. Mesentery and omentum

Glands

- 865 Salivary glands
- 866 Pancreas
- 867 Liver

Ductless glands

Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid, etc.

Urogenital system

- 871 General works
- Excretory organs
- 872 General works
- 872.5 Nephridia
- 872.7 Wolffian body
- 873 Kidneys
- 873.5 Ducts
- 874 Bladder
- 875 Urethra
- Reproductive organs. Copulatory organs
- 876 General works
- 878 Male
- 881 Female

Nervous system

For histology see QM575

- 921 Periodicals, societies, congresses, serial publications
- 923 Collected works (nonserial)
- 925 General works, treatises, and textbooks
- 927 Laboratory manuals. Neurological technique
- 931 Neural elements: Cells, fibers, supporting structures, etc.
- Central nervous system. Brain
- 933 General works, treatises, and textbooks
- Special types
- 935 Invertebrate

Anatomy

Nervous system

Central nervous system. Brain

Special types -- Continued

937

Vertebrate

938.A-Z

Special structures, A-Z

938.A35

Afferent pathways

938.B73

Brain stem

938.C46

Cerebral cortex

938.C47

Cerebral ventricles

938.D44

Dentate nucleus

938.D53

Diencephalon

938.D65

Dorsal ventricular ridge

938.H56

Hippocampus

938.H94

Hypothalamus

938.L55

Limbic system

938.M4

Mechanoreceptors

938.M43

Medial geniculate body

938.N45

Neocortex

938.N48

Neural crest

938.O44

Olivary nucleus

938.P7

Prosencephalon

938.R53

Rhencephalon

938.S6

Spinal cord

938.T45

Thalamus

939

Peripheral nervous system. Sympathetic nervous system

940

Animal weapons for defense and offense

Integument. Skin

941

General works

942

Hair. Fur. Bristles. Whiskers. Scales. Nails. Hoofs. Horns

943

Skin glands. Odoriferous glands

944

Mammae

Sense organs

945

General works

945.5

Antennae

946

Tongue

947

Nose

948

Ear

949

Eye

Topographical and regional anatomy

950.1

General works, treatises, and textbooks

950.2

External form of the body

Trunk

950.3

General works

950.39

Buttocks

950.4

Neck

950.5

Head

Anatomy

Topographical and regional anatomy -- Continued

950.6

Tail

Limbs

950.7

General works

950.75

Flippers

950.8

Wings

950.9

Segmental anatomy

950.95

Body cavities

Embryology

For special organs see QL821+

For human embryology see QM601+

951

Periodicals, societies, congresses, serial publications

952

Nomenclature, terminology, notation, abbreviations

953

History

Biography

954

Collective

954.2.A-Z

Individual, A-Z

955

General works, treatises, and textbooks

Including general works on vertebrates or invertebrates

956

Pictorial works and atlases

956.5

Juvenile works

957

Laboratory manuals

Individual orders, genera, species, etc.

958

Invertebrate

959

Vertebrate

Special topics

961

Experimental embryology

962

Behavioral embryology

963

Chemical embryology

963.5

Cell differentiation

Cf. QH607+ Cytology

Germ cells

964

General works

965

Oogenesis and ovum

966

Spermatogenesis and spermatozoa

For fertilization see QP273

Development of the embryo

Including twins, multiple birth, etc.

971

General works

971.2

Organizer

973

Allantois. Placenta

975

Amnion. Amniotic fluid

977

Chorion

979

Myogenesis

979.5

Chondrogenesis

981

Metamorphosis

QL

ZOOLOGY

QL

991

Embryology -- Continued
Teratology

Human anatomy

Class here only works that deal with human anatomy

For physical anthropology see GN49+

For comparative anatomy see QL801+

For works that include both human physiology and anatomy
see QP1+

- 1 Periodicals, societies, congresses, serial publications
- 5 Collected works (nonserial)
- 7 Dictionaries and encyclopedias
- Nomenclature, terminology, notation, abbreviations see QM81
- 11 History
- Biography
- 16.A2 Collective
- 16.A3-Z Individual, A-Z
- e.g.
- 16.L4 Leonardo da Vinci
- 16.V5 Vesalius
- 17 Directories
- 21 Early works through 1800
- General works, treatises, and textbooks
- 23 1801-1969
- 23.2 1970-
- 24 Comparative anatomy of humans
- Cf. GN281+ Human evolution. Man's place in nature
- 24.5 Anatomy of the child
- Cf. RJ131+ Growth and development of children
- 25 Pictorial works and atlases
- 26 Popular works
- 27 Juvenile works
- 28 Special aspects of the subject as a whole
- Study and teaching. Research
- 30 General works
- 31 Outlines, syllabi
- 32 Problems, exercises, examinations
- 33 Charts, manikins, etc.
- By region or country
- United States
- 33.1 General works
- 33.2.A-Z By region or state, A-Z
- Subarrange each state by Table Q7
- 33.3.A-Z Other regions or countries, A-Z
- Subarrange each country by Table Q7
- Dissection
- 33.4 History
- 33.5 General works, treatises, and textbooks
- 34 Manuals of practical anatomy. Laboratory manuals
- 35 Outline guides

- 39 Dissection -- Continued
Laboratory technique
- Laboratories
- 41 General works
- 43.A-Z By region or country, A-Z
Subarrange each country by Table Q6
- Museums. Exhibitions
- 51.A1 General works
- 51.A2-Z By region or country, A-Z
Subarrange each country by Table Q5
- 71 Addresses, essays, lectures
- 81 Nomenclature, terminology, notation, abbreviations
- 100 Musculoskeletal system
Skeleton. Osteology
Cf. RA1059 Forensic osteology
- 101 General works
- 105 Skull
Cf. GN71+ Craniology
- 111 Vertebral column
- 113 Ribs and sternum
- 115 Hipbone and pelvis
- 117 Bones of the extremities
- Articulations. Joints
- 131 General works
- 141 Ligaments
- 142 Articular cartilage
- Muscles
- 151 General works
- 155 Of the head and neck
- 161 Of the trunk
- 165 Of the limbs
- 170 Tendons
- Vascular system
For works on the blood vessels of a particular organ or system,
see the organ or system
- 178 General works
- 181 Heart. Pericardium
- 191 Arteries and veins
- 197 Lymphatics
- Organs of respiration and voice
- 251 General works
- 255 Larynx
Cf. QP306 Larynx physiology
- 257 Trachea. Bronchi
- 261 Lungs. Pleura
- 265 Diaphragm
- Organs of digestion

Organs of digestion -- Continued

- 301 General works
- 306 Mouth
- 311 Teeth
- 325 Salivary glands
- 331 Pharynx. Esophagus. Tonsils
- 341 Stomach
- 345 Intestines
- 351 Liver
- 352 Gallbladder
- 353 Pancreas
- 367 Peritoneum. Mesentery and omentum

Glands

- Cf. QM325 Salivary glands
- Cf. QM351 Liver
- Cf. QM353 Pancreas
- 368 General works, treatises, and textbooks
- 371 Ductless glands
 - Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid

Urinary and reproductive organs

- 401 General works
- 404 Kidneys
- 408 Ureters
- 411 Bladder
- 413 Urethra
- 416 Generative organs, Male
- 421 Generative organs, Female
- 431 Perineum

Nervous system

- For works on the innervation of a particular organ or system, see the organ or system
- 451 General works
- 455 Brain
- 465 Spinal cord
- 469 Meninges
- 471 Peripheral nervous system. Sympathetic nervous system. Cranial nerves, etc.

Integument

- 481 General works
- 484 External skin
- 485 Bursae mucosae
- 488 Hair. Nails
- 491 Skin glands
- 495 Mammae

Sense organs

- 501 General works

- Sense organs -- Continued
- 503 Tongue
- 505 Nose
- 507 Ear
- 511 Eye
- Regional anatomy
 - Including surgical and topographical anatomy
 - 531 General works, treatises, and textbooks
 - Special regions
 - 535 Head and neck. Jaws
 - Trunk
 - 540 General works
 - 541 Thorax
 - 543 Abdomen
 - Limbs
 - 548 Upper. Arm and hand
 - 549 Lower. Leg and foot
- Human and comparative histology
 - Including microscopic anatomy and ultrastructure
 - For general comparative histology see QL807
 - 550 Periodicals, societies, congresses, serial publications
 - 550.2 Dictionaries and encyclopedias
 - Biography
 - 550.5 Collective
 - 550.6.A-Z Individual, A-Z
 - 551 General works, treatises, and textbooks
 - Study and teaching. Research
 - 552 General works
 - 553 Outlines, syllabi
 - 554 Problems, exercises, examinations
 - 555 Laboratory manuals
 - Laboratory technique
 - 556 General works
 - 556.5.A-Z Special methods, A-Z
 - Embedding, Plastic see QM556.5.P53
 - 556.5.F5 Fixation
 - 556.5.L9 Lyophilization
 - 556.5.P53 Plastic embedding
 - 557 Pictorial works and atlases
 - Special tissues
 - 559 Pigment
 - 561 Epithelium
 - Cf. QP88.4 Physiology
 - 562 Endothelium
 - Cf. QP88.45 Physiology
 - 563 Connective tissues
 - 565 Adipose tissues

Human and comparative histology

Special tissues -- Continued

- 567 Cartilaginous tissues
- 569 Bony tissues
 - Including bone marrow
- 569.5 Hematopoietic system
- 570 Blood vessels
- 570.5 Heart
- 570.7 Lymphatics
- 571 Muscular tissues
- 575 Nerve tissues
- 575.5 Blood-brain barrier
- 576 Endocrine glands
- Generative organs
 - 577 General works
 - 577.4 Male
 - 577.8 Female

Human embryology

- 601 General works, treatises, and textbooks
- 602 Pictorial works and atlases
- 603 Popular works
- 608 Research. Experimentation
- 611 Special topics (not A-Z)
- Teratology
 - Cf. GT6730 Manners and customs
- 690 Early works through 1800
- 691 1801-
- 695.A-Z By region, system, or organ of the body, A-Z
 - Class clinical aspects in R
- 695.B36 Basicranium
- 695.B7 Brain
- 695.C37 Cardiovascular system
- 695.E95 Extremities
- 695.F32 Face
- 695.G45 Generative organs
- 695.N45 Nervous system
- 695.P76 Prosencephalon
- 695.U74 Urinary organs
- 695.V55 Viscera

Physiology

For the physiology of special animals or groups of animals see the systematic divisions QL364+

Cf. GN221+ Physiological anthropology

- 1 Periodicals, societies, congresses, serial publications
- 6 Collected works (nonserial)
- 11 Dictionaries and encyclopedias
- 13 Nomenclature, terminology, notation, abbreviations
- 21 History
- Biography
 - 25 Collective
 - 26.A-Z Individual, A-Z
 - e.g.
 - 26.H3 Harvey
 - 26.P35 Pavlov
 - 29 Early works through 1800
 - General works, treatises, and textbooks
 - 31 1801-1969
 - 31.2 1970-
 - 33 Comparative physiology
 - 33.5 Special aspects of the subject as a whole
 - 33.6.A-Z Special topics, A-Z
 - 33.6.C48 Chaotic processes
 - 33.6.D38 Data processing
 - 33.6.M36 Mathematical models
- Human physiology
 - Including general works on human biology
 - General works, treatises, and advanced textbooks
 - 34 Through 1969
 - 34.5 1970-
 - 35 Handbooks, manuals, etc.
 - 36 School textbooks of physiology and hygiene
 - 37 Juvenile works
 - 38 Popular works
- Study and teaching. Research
 - Cf. RA440+ Hygiene
 - 39 General works
 - 40 Problems, exercises, examinations
 - 41 Outlines, syllabi
 - Experimental physiology
 - 42 Elementary works
 - Including laboratory manuals
 - 43 Advanced works
 - 44 Laboratory manuals
 - Data processing see QP33.6.D38
 - 45 Vivisection
 - Cf. HV4905+ Anti-vivisection

- Study and teaching. Research -- Continued
- 47.A-Z By region or country, A-Z
- Laboratories
- 51 General works
- 53.A-Z By region or country, A-Z
Subarrange each country by Table Q6
- 54 Technique
- 55 Instruments and apparatus
- 71 Addresses, essays, lectures
- 77 Miscellany and curiosa
- Phenomena of animal life (General)
- 81 General works
- 81.5 Sex differences
- 81.6 Sexual orientation. Homosexuality
- Influence of the environment (General). Animal
ecophysiology. Physiological adaptation
Cf. GF1+ Human ecology
- 82 General works
- 82.2.A-Z Special topics, A-Z
- 82.2.A2 Acceleration
- 82.2.A3 Air pollution
- 82.2.A36 Allostasis
- 82.2.A4 Altitude
- Anoxemia see QP177
- Biomagnetism see QP82.2.M3
- 82.2.C5 Climate. Weather
Cf. QP82.2.H8 Humidity
Cf. QP82.2.T4 Temperature
- 82.2.C6 Cold
- 82.2.E4 Electrolytes
- 82.2.E43 Electromagnetic waves
- 82.2.G35 Gamma waves
- 82.2.G7 Gravity
- 82.2.H4 Heat
- 82.2.H44 Heavy metals
- 82.2.H45 Heavy particles
- 82.2.H8 Humidity
- Immersion in water see QP82.2.W35
- 82.2.I45 Infrasonic waves
- 82.2.I5 Ionized air
- 82.2.I53 Ionizing radiation
- 82.2.L3 Lasers
- 82.2.L5 Light
- 82.2.M3 Magnetism
- 82.2.M5 Microwaves
- 82.2.M54 Millimeter waves
- 82.2.N6 Noise

- Phenomena of animal life (General)
 Influence of the environment (General). Animal
 ecophysiology. Physiological adaptation
 Special topics, A-Z -- Continued
- 82.2.N64 Nonionizing radiation
 82.2.P4 Pesticides
 82.2.P6 Pollution
 82.2.P7 Pressure
 82.2.R3 Radiation
 Radiation, Ionizing see QP82.2.I53
 Radiation, Nonionizing see QP82.2.N64
 Radiation, Ultraviolet see QP82.2.U4
- 82.2.R33 Radio waves
 82.2.S8 Stress (Physiology)
 82.2.T4 Temperature
 Cf. QP82.2.C6 Cold
 Cf. QP82.2.H4 Heat
 Cf. QP135 Thermoregulation
 Traffic and wildlife see HE5620.W54
- 82.2.U37 Ultrasonic waves
 82.2.U4 Ultraviolet rays
 82.2.U45 Underwater physiology
 Cf. RC1015 Human underwater physiology
- 82.2.V5 Vibration
 82.2.W35 Water immersion
 82.2.W36 Water pollution
 Weather see QP82.2.C5
- 82.2.W4 Weightlessness
 Cf. RC1151.W44 Human space physiology
- Developmental physiology
 Cf. QL971+ Animal fetal development
 Cf. RG600+ Human fetal development
 Cf. RJ131+ Children
 Cf. RJ140+ Adolescents
 Cf. RJ252 Infants
- 83.8 General works, treatises, and textbooks
 84 Growth
 84.4 Puberty
 84.6 Chronobiology. Periodicity. Biorhythms
 For special applications, see the field, e.g. T55.3.B56 Industrial
 safety
- 85 Longevity. Prolongation of life
 86 Aging. Senescence
 Cf. QH608 Cell aging
 Cf. RC580.P7 Progeria
 Cf. RC952+ Geriatrics

- Developmental physiology -- Continued
- 87 Death
Cf. QH671 Cell death
- Physiology of the tissues (General)
Including physical and chemical properties
- 88 General works
- 88.15 Adipose tissues. Brown adipose tissue
Cf. QM565 Histology
- 88.2 Bone
- 88.23 Connective tissues
- 88.3 Hair. Fur. Wool
- 88.4 Epithelium
Cf. QM561 Histology
- 88.45 Endothelium
Cf. QP88.45 Histology
- Muscle see QP321+
- Nerve see QP361+
- 88.5 Skin
Cf. QP220+ Skin secretions
Cf. QP369+ Skin nerves
Cf. QP372.9 Galvanic skin response
Cf. QP450+ Cutaneous senses
- 88.6 Teeth
Cf. QP149 Mastication
- 89 Transplantation
Cf. RD120.6+ Surgery
- 90 Rejuvenation
- 90.2 Regeneration
- 90.4 Homeostasis
- 90.5 Body fluids
For lymph see QP115
For secretions see QP190+
For cerebrospinal fluid see QP375
- 90.6 Osmoregulation
- 90.7 Acid-base equilibrium
- Blood
- 91 General works
- 92 Formation. Hematopoiesis. Bone marrow
Composition and chemistry
- 93 General works
Coagulation
Including fibrin, fibrinogen, thrombin, prothrombin,
thromboplastin
- 93.5 General works
- 93.7.A-Z Special factors, A-Z
- 93.7.A58 Antithrombins
- 93.7.P76 Protein C

Blood

Composition and chemistry

Coagulation

Special factors, A-Z -- Continued

93.7.T45

Thrombomodulin

93.7.V65

Von Willebrand factor

Corpuscles and platelets

94

General works

Leucocytes. White blood cells

Cf. QR185.8.L48 Immunology

95

General works

95.2

Basophils

95.3

Eosinophils

Cf. QR185.8.E58 Immunology

95.4

Granulocytes

Cf. QR185.8.G73 Immunology

95.5

Lymphocytes

Cf. QR185.8.L9 Immunology

95.7

Monocytes

95.8

Neutrophils

Cf. QR185.8.N47 Immunology

Erythrocytes. Red blood cells

96

General works

96.5

Hemoglobin

Cf. QP99.3.G55 Glycosylated hemoglobin

Cf. RC641.7.H35 Hemoglobinopathy

96.7

Reticulocytes

Platelets

Cf. QR185.8.P58 Immunology

97

General works

97.5

Megakaryocytes

98

Blood groups

99

Plasma and serum

99.3.A-Z

Special constituents, A-Z

99.3.A4

Albumins

99.3.A45

Alpha macroglobulins

Antithrombins see QP93.7.A58

99.3.A65

Apolipoproteins

Including individual apolipoproteins

99.3.B5

Blood sugar

99.3.C3

Carbon dioxide

Fibrin and fibrinogen see QP93.5+

99.3.G3

Gases

Cf. RB45.2 Examination of blood gases

99.3.G55

Glycosylated hemoglobin

99.3.H3

Haptoglobin

99.3.H35

Hematin

Blood

Special constituents, A-Z -- Continued

- 99.3.H37 Hematoblasts
- 99.3.H4 Hemocyanin
- 99.3.H45 Hemoerythrin
- Hemoglobin see QP96.5
- 99.3.H53 High density lipoproteins
- 99.3.L5 Lipids
- 99.3.L52 Lipoproteins
- 99.3.L68 Low density lipoproteins
- 99.3.O6 Oocytin
- 99.3.O9 Oxygen
- 99.3.P5 Pigments
- Platelet activating factor see QP752.P62
- 99.3.P7 Proteins
- Prothrombin see QP93.5+
- Thrombin and thromboplastin see QP93.5+
- Trace elements
- 99.3.T72
- 99.5.A-Z Other special, A-Z
- 99.5.A3 Agglutination
- 99.5.E5 Electrophoresis
- 99.5.H4 Hemolysis
- 99.5.S4 Sedimentation

Cardiovascular system. Circulation

- 101 General works, treatises, and textbooks
- 101.2 Periodicals, societies, congresses, serial publications
- 101.3 Collected works (nonserial)
- 101.4 History of discovery and ideas on circulation. Harvey
- (102) General works
 - see QP101
- 103 Juvenile works
- 104 Study and teaching. Research
- Hemodynamics
 - Including pressure, velocity, flow, viscosity, etc.
- 105 General works
- 105.15 Rheology
- 105.2 Measurement of pressure
- 105.4 Measurement of flow
- Systemic system
- 106 General works
- 106.2 Arterial. Aorta
- 106.4 Venous
- 106.6 Microcirculation. Capillaries
- Special systems
- 107 Pulmonary system
- 108 Coronary system
- 108.5.A-Z Other, A-Z

Cardiovascular system. Circulation

Special systems

Other, A-Z -- Continued

- 108.5.C4 Cerebral circulation
- 108.5.P45 Peripheral circulation
- 109 Vasomotor control. Baroreflexes
- 110.A-Z Other special topics, A-Z
- 110.A37 Adrenergic receptors
- 110.A7 Artificial circulation
- 110.B5 Blood volume
- 110.C64 Collateral circulation
- 110.G45 Gene expression
- 110.R3 Radiation effects
- 110.V34 Vascular endothelium
- 110.V37 Vascular muscle
- 110.V38 Vascular resistance

Heart

- (111) General works
 - see QP111.4
- 111.2 Periodicals, societies, congresses, serial publications
- 111.3 Collected works (nonserial)
- 111.4 General works, treatises, and textbooks
- 111.5 Pictorial works and atlases
- 111.6 Juvenile works
- 112 Study and teaching. Research
 - General works
 - Research techniques
 - 112.4 General works
 - 112.5.A-Z Special, A-Z
 - 112.5.A55 Animal models
 - 112.5.C3 Cardiography
 - 112.5.E4 Electrocardiography
 - 112.5.E46 Electrophysiology
 - 112.5.M33 Magnetocardiography
 - 112.5.N83 Nuclear magnetic resonance
 - 112.5.R6 Radiography
- 113 Cardiac dynamics
 - Including beat, rate, output, acceleration, rhythm
- 113.2 Myocardium
 - For specific myocardial characteristics see QP114.A+
- 113.4 Nervous control
- 113.6 Cardiovascular sound
- 114.A-Z Other special topics, A-Z
 - 114.A32 Adaptation
 - 114.A35 Aging
 - 114.A57 Aortic valve
 - 114.A75 Arrest, Cardiac

Heart

Other special topics, A-Z -- Continued

Cardiac arrest see QP114.A75

Cardiac membranes see QP114.M46

114.C37

Cardiogenic reflexes

114.C44

Cells

114.C5

Chemical effects

Cold see QP114.H94

114.C65

Conduction system

114.D5

Diastole

114.D54

Dilatation

114.E53

Endocardium

114.E9

Exercise effects

Heart cells see QP114.C44

Heart membranes see QP114.M46

114.H6

Hormone control

114.H94

Hypothermia. Cold

114.I8

Isolation. Survival

114.L94

Lymphatics

114.M43

Mechanical properties

114.M46

Membranes

114.M48

Metabolism

114.M65

Molecular biology

114.R3

Radiation effects

114.R43

Receptors

Reflexes, Cardiogenic see QP114.C37

114.R45

Regeneration

115

Lymph and lymphatic system

Cf. QP114.L94 Heart lymphatics

Cardiopulmonary system

119.A1

Periodicals, societies, congresses, serial publications

119.A4-Z

General works, treatises, and textbooks

120.A-Z

Special topics, A-Z

120.M39

Maximal oxygen uptake

Respiration. Respiratory organs

Cf. QP177 Oxygen and metabolism

Cf. RA782 Breathing and exercises

121.A1

Periodicals, societies, congresses, serial publications

121.A4-Z

General works, treatises, and textbooks

123

Regulation of respiration

123.5

Cough

123.8

Sneezing

124

Pulmonary gas exchange

125

Trachea

135

Thermoregulation. Animal heat. Body temperature

Cf. QP82.2.T4 Ambient temperature

136

Appetite

- Hunger and thirst
 - Cf. RC620+ Deficiency diseases
- 137 General works
 - Hunger
- 138 General works
- 138.5 Starvation
- 139 Thirst
- Nutrition
 - Cf. RA784 Personal hygiene
 - Cf. RG559 Pregnancy
 - Cf. RM214+ Diet therapy
 - Cf. SF94.5+ Animal culture. Feeding and feeds
 - Cf. TX551+ Home economics
- 141.A1 Periodicals, societies, congresses, serial publications
- 141.A2-Z General works, treatises, and textbooks
- Study and teaching. Research
- 143 General works
 - Research techniques
- 143.4 General works
- 143.5.A-Z Special, A-Z
 - 143.5.A58 Anthropometric assessment
 - 143.5.M37 Mathematical models
 - 143.5.R33 Radioactive tracers
 - 143.5.S73 Stable isotope tracers
- 143.7 Nutrient interactions
- 144.A-Z Other special topics, A-Z
 - 144.A77 Avocado
 - 144.B48 Beverages
 - 144.C46 Chocolate. Cocoa
 - 144.C58 Citrus fruit
 - Cocoa see QP144.C46
 - 144.C63 Coconut
 - Dairy products see QP144.M54
 - 144.E44 Eggs
 - 144.F52 Fiber
 - 144.F56 Fish. Seafood. Marine products
 - 144.F78 Fruit
 - 144.F85 Functional foods
 - 144.G45 Genetics
 - 144.G73 Grain
 - Marine products see QP144.F56
 - 144.M43 Meat
 - 144.M54 Milk. Dairy products
 - 144.O44 Oilseeds. Vegetable oils
 - Including individual oilseeds and vegetable oils
 - 144.R53 Rice
 - Seafood see QP144.F56

Nutrition

Other special topics, A-Z -- Continued

Vegetable oils see QP144.O44

144.V44

Vegetables

Physiology of the digestive tract. Digestion

145

General works

Special organs

Mouth. Pharynx. Esophagus

Cf. QP88.6 Teeth

Cf. QP188.S2 Salivary glands

146

General works

147

Ingestion. Eating

148

Deglutition

149

Mastication

150

Drinking

151

Stomach

Cf. QP193 Gastric juice

156

Intestines

157

Peritoneum. Mesentery and omentum

159

Feces

165

Absorption

Metabolism

Cf. QH634.5 Cell metabolism

171

General works

176

Energy metabolism

177

Relation of oxygen to metabolism

Including oxidation, anoxemia, etc.

180

Gastrointestinal motility

185

Liver. Gallbladder

Cf. QP197 Bile

185.3

Bile ducts

Glands

186

General works

Endocrinology. Endocrine glands

Cf. QP252+ Reproductive endocrinology

Cf. QP356.4 Neuroendocrinology

Cf. QP356.45 Behavioral endocrinology

Cf. RC648+ Endocrine diseases

187.A1

Periodicals, societies, congresses, serial publications

187.A4-Z

General works, treatises, and textbooks

187.3.A-Z

Special topics, A-Z

187.3.A28

Adaptation

187.3.A34

Aging

187.3.C44

Cellular control mechanisms

187.3.D38

Data processing

187.3.E93

Exercise

187.3.M36

Mathematical models

Glands

Endocrinology. Endocrine glands

Special topics, A-Z -- Continued

187.3.M64

Molecular endocrinology

187.3.S42

Second messengers

187.5

Endocrine genetics

187.6

Developmental endocrinology

Individual endocrine glands see QP188.A+

Exocrine glands

187.7.A1

Periodicals, societies, congresses, serial publications

187.7.A4-Z

General works, treatises, and textbooks

188.A-Z

Special glands, A-Z

188.A28

Adrenal cortex

188.A3

Adrenal glands

188.A33

Adrenal medulla

188.A6

Aortic paraganglia

188.C35

Chromaffin cells

188.H88

Hypothalamic-pituitary-adrenal axis

188.H9

Hypothalamo-hypophyseal system

Cf. QP188.P58 Pituitary gland

Cf. QP356.4 Neuroendocrinology

Cf. QP383.7+ Hypothalamus

Islands of Langerhans see QP188.P26

188.M3

Mammary glands

Cf. QP246 Milk

188.P26

Pancreas. Islands of Langerhans

Cf. QP195 Pancreatic juice

188.P3

Parathyroid gland

188.P55

Pineal body

188.P58

Pituitary gland

Cf. QP188.H9 Hypothalamo-hypophyseal system

188.S2

Salivary glands

Cf. QP191 Saliva

188.S26

Salt glands

188.S43

Sebaceous glands

Cf. QP222 Sebum

188.S7

Spleen

188.S9

Sweat glands

Cf. QP221 Sweat

188.T4

Tear glands. Lacrimal organs

Cf. QP231 Tears

188.T5

Thymus gland

188.T54

Thyroid gland

Secretions

190

General works, treatises, and textbooks

Digestive organs and glands secretions

190.7

General works, treatises, and textbooks

Secretions

Digestive organs and glands secretions -- Continued

- 191 Saliva
- 193 Gastric juice
Cf. QP552.G35 Gastric intrinsic factor
- 195 Pancreatic juice
- 197 Bile
Cf. QP671.B5 Bile pigments
Cf. QP752.B54 Bile acids
- 211 Urinary organs secretions. Urine
- 215 Mucous membrane secretions. Mucus
- Skin secretions
- 220 General works, treatises, and textbooks
- 221 Sweat
- 222 Sebum
- 231 Lacrimal organ secretions. Tears
- Other
- 235 Venom
- 246 Milk
- 246.5 Synovial fluid
- Urinary and reproductive organs
- 247 General works
Urinary organs
Cf. QP211 Urine
- 248 General works
- 249 Kidneys
- 250 Ureters
- 250.5 Bladder
- 250.8 Urethra
- Reproduction. Physiology of sex
Cf. HQ31+ Sex instruction
Cf. QP81.6 Sexual orientation. Homosexuality
Cf. RA788 Sexual health
- 251 General works, treatises, and textbooks
- 251.5 Juvenile works
- Reproductive endocrinology
Cf. RG159+ Endocrine gynecology
Cf. RG558.5 Obstetrical endocrinology
Cf. RG616 Fetus
- 252 General works
- 252.5 Reproductive immunology
Cf. RG557 Obstetrics
- Male sex physiology
- 253 General works, treatises, and textbooks
- 255 Testes and semen
Cf. QL966 Spermatogenesis
- 257 Accessory male organs

- Urinary and reproductive organs
 Reproduction. Physiology of sex -- Continued
 Female sex physiology
 259 General works, treatises, and textbooks
 261 Ovary and ovulation
 Cf. QL965 Oogenesis
 262 Uterus
 263 Menstruation
 Cf. RJ140+ Physiology of adolescents
 265 Accessory female organs
 267 Hermaphroditism
 273 Fertilization. Fecundation
 For fertility see QP251
 275 Ovum implantation
 277 Physiology of the embryo
 Cf. QL951+ Embryology (Zoology)
 Cf. QM601+ Human embryology
 Cf. RG610+ Human fetus
 278 Sex differentiation
 278.5 Sex determination
 Cf. QH600.5 Sex chromosomes
 Cf. RG566 Determination of sex during pregnancy
 279 Sex preselection
 280 Viviparity. Ovoviviparity
 281 Gestation
 Cf. RG499.2+ Obstetrics
 285 Parturition
 Cf. RG651+ Labor
 Musculoskeletal system. Movements
 Including physiology of exercise
 Cf. GN231+ Physical anthropology
 Cf. QP114.E9 Exercise effects on heart
 Cf. QP187.3.E93 Endocrinology
 Cf. RC1235+ Physiology of sports
 301 General works, treatises, and textbooks
 303 Mechanics. Kinesiology
 306 Voice and speech. Larynx
 Cf. BF463.S64 Speech perception
 Cf. MT821 Voice culture
 Cf. QM255 Larynx anatomy
 Cf. RC280.T5 Laryngeal tumors
 Cf. RC423+ Speech disorders
 Cf. RF510+ Laryngeal diseases
 Cf. TK7895.S65 Speech recognition systems
 309 Work physiology
 310.A-Z Other special movements, A-Z
 310.C5 Ciliary motion

Musculoskeletal system. Movements

Other special movements, A-Z -- Continued

- 310.C55 Climbing
 310.D35 Dancing
 Deglutition see QP148
 310.F5 Flight
 310.G34 Galloping
 Cf. SF289 Horses
 (310.H36) Hand movements
 see QP334
 (310.H43) Head movements
 see QP325
 Ingestion see QP147
 310.I7 Irritability
 310.J86 Jumping
 Mastication see QP149
 310.P5 Phototropism
 310.R45 Rhythmic movements
 310.R85 Running
 310.S45 Skipping
 (310.S65) Spinal movements
 see QP330
 310.S77 Stretching
 310.S95 Swimming
 310.T9 Typewriting
 310.W3 Walking
 310.W7 Writing
 310.3 Posture
 310.5 Hypokinesia. Inactivity
 311 Miscellany and curiosa
 Muscle
 Cf. QP113.2 Myocardium
 321 General works
 321.5 Smooth muscle
 Cf. QP110.V37 Vascular muscle
 322 Sphincters
 323 Joints
 By region
 Head and neck
 325 General works
 327 Face
 330 Spine
 Upper extremities
 333 General works
 334 Hand
 Lower extremities
 335 General works

- Musculoskeletal system. Movements
 - By region
 - Lower extremities -- Continued
 - 336 Foot
- 341 Electrophysiology
 - Cf. QL639.1 Fishes
 - Cf. QP372.9 Galvanic skin response
 - Cf. QP447.5 Electroreceptors
- 345 Magnetic field generation
- Neurophysiology and neuropsychology
 - 351 Periodicals, societies, congresses, serial publications
 - 352 Collected works (nonserial)
 - 352.5 Dictionaries and encyclopedias
 - 353 History
 - Biography
 - 353.3 Collective
 - 353.4.A-Z Individual, A-Z
 - 354 Early works through 1800
 - General works, treatises, and textbooks
 - 355 1801-1969
 - 355.2 1970-
 - 356 Special aspects of the subject as a whole
 - 356.15 Comparative neurobiology
 - 356.2 Molecular neurobiology
 - 356.22 Neurogenetics
 - 356.25 Developmental neurophysiology
 - 356.3 Neurochemistry. Brain chemistry
 - 356.4 Neuroendocrinology
 - Cf. QP188.H9 Hypothalamo-hypophyseal system
 - 356.45 Psychoneuroendocrinology. Behavioral endocrinology
 - 356.47 Neuroimmunology
 - 356.5 Radiation effects on the nervous system
 - 357 Laboratory manuals
 - Cf. BF79 Psychology laboratory manuals
 - 357.5 Data processing
 - 359 Miscellany and curiosa
 - Neuropsychology. Physiological psychology.
 - Psychophysiology
 - Cf. BF1+ Psychology
 - 360 General works
 - 360.5 Cognitive neuroscience
 - 360.6 Neuroanthropology
 - 360.7 Neuroergonomics
 - Nervous system
 - 361 General works, treatises, and textbooks
 - 361.5 Juvenile works

Neurophysiology and neuropsychology

Nervous system -- Continued

- 363 Miscellaneous general functions
 Including excitation, impulse propagation, etc.
- 363.2 Neuroglia
- 363.3 Neural circuitry. Neural networks
- 363.5 Neurogenesis. Developmental neurobiology
- 364 Synapses
- 364.5 Neural transmission
- 364.7 Neurotransmitters. Neurotransmitter receptors
- 365 Inhibition (General)
- 365.2 Sensitization
- Peripheral nervous system
- 365.5 General works
- Cerebrospinal nerves
- 366 Cranial nerves
- 367 Spinal nerves
- Autonomic nervous system
- 368 General works
- 368.5 Sympathetic nervous system
- 368.7 Parasympathetic nervous system
- 368.8 Autonomic ganglia. Paraganglia
- Somatic nervous system. Muscle and skin nerves
- 369 General works
- 369.5 Neuromuscular transmission. Myoneural junction
- Central nervous system
- 370 General works
- 370.5 Pyramidal tract. Extrapyramidal tracts
- 371 Spinal cord
- Reflexes
 Cf. QP416 Conditioned response
- 372 General works
- 372.5 Stretch reflex
- 372.6 Startle reflex
- 372.8 Visceral reflex
- 372.9 Galvanic skin response
- (374) Other special topics (not A-Z)
- 375 Cerebrospinal fluid
- 375.5 Blood-brain barrier. Choroid plexus
- Brain
 Cf. QP108.5.C4 Cerebral circulation
 Cf. QP356.3 Neurochemistry
- 376 General works
- 376.5 Electroencephalography
- 376.6 Imaging
- Brain stem
- 376.8 General works

Neurophysiology and neuropsychology

Nervous system

Central nervous system

Brain

Brain stem -- Continued

377

Medulla oblongata

377.5

Pons Varolii

Midbrain. Mesencephalon

378

General works

378.3

Substantia nigra

378.4

Periaqueductal gray matter

379

Cerebellum

Cerebrum. Cerebral hemispheres

381

General works

382.A-Z

Special lobes, A-Z

382.F7

Frontal

382.O22

Occipital

382.P3

Parietal

382.T4

Temporal

382.2

Corpus callosum

Cortex

383

General works

383.12

Neocortex

383.15

Sensorimotor cortex

383.17

Prefrontal cortex

383.2

Limbic system

383.25

Hippocampus

Basal ganglia

383.3

General works

383.5

Thalamus. Optic thalamus

383.6

Clastrum

Hypothalamus

Cf. QP188.H9 Hypothalamo-hypophyseal system

383.7

General works

383.8

Suprachiasmatic nucleus

383.9

Corpus striatum

384.3

Encephalic photoreceptors

Localization of functions

385

General works

385.5

Cerebral dominance

388

Brain stimulation techniques

Time relations of central processes, reaction time, etc.
see BF317

Association of ideas see BF365+

395

Higher nervous activity

396

Information processing

Neurophysiology and neuropsychology

Nervous system

Central nervous system

Brain -- Continued

398

Intellect

Cf. BF431+ Psychology

399

Language. Speech

Cf. BF455+ Psychology

Cf. QP306 Speech

401

Emotions. Pleasure and pain

Cf. BF511 Psychology

402

Personality

405

Attention and volition

406

Memory

Cf. BD181.7 Philosophy

Cf. BF370+ Psychology

408

Learning

Cf. BF318 Psychology

Cf. LB1060+ Education

409

Motivation

Cf. BF501+ Psychology

411

Consciousness, subconsciousness, and

unconsciousness

416

Conditioned response

421

Fatigue

Cf. BF482 Psychology

Cf. QP321+ Muscle

Sleep. Hypnotic conditions, etc.

425

General works

426

Dreaming

Cf. BF1074+ Parapsychology

427

Napping

430

Other special topics (not A-Z)

Senses. Sensation. Sense organs

Cf. BF231+ Psychology

Cf. QP137+ Hunger and thirst

431

General works, treatises, and textbooks

434

Juvenile works

435

General special

Perceptual process

441

General works

442

Intersensory effects. Multisensory processing

Multisensory processing see QP442

443

Space

Including orientation

Cf. QP471+ Equilibrium

Cf. QP491+ Visual space perception

Neurophysiology and neuropsychology

Senses. Sensation. Sense organs

Perceptual process -- Continued

445

Time

Sensory receptors

447

General works

Chemoreceptors see QP455+

447.5

Electroreceptors

447.7

Magnetoreceptors

Nociceptors see QP451.4

447.8

Photoreceptors

For encephalic photoreceptors see QP384.3

Proprioceptors see QP454

Thermoreceptors see QP451.6

Special senses

Somesthesia

448

General works

Cutaneous senses

450

General works

451

Touch

451.2

Pressure

451.4

Pain

Including nociceptors

451.6

Temperature

Including thermoreceptors

454

Proprioception. Sense of movement. Muscular sense

Chemical senses. Chemoreceptors

455

General works

456

Taste

458

Smell

Hearing. Physiological acoustics

Cf. ML3820+ Physiology of music

Cf. QC221+ Sound (Physics)

460

Periodicals, societies, congresses, serial publications

461

General works, treatises, and textbooks

462

Popular works

462.2

Juvenile works

463

Limits of hearing

(464)

Speech perception

see BF463.S64

465

Pitch and tone perception and discrimination

467

Rhythm. Melody

469

Localization of sound

469.3

Bone conduction

Equilibrium. Labyrinths of the ear

471

General works

471.2

Cochlea

Neurophysiology and neuropsychology

Senses. Sensation. Sense organs

Special senses -- Continued

Vision. Physiological optics

Cf. RE1+ Ophthalmology

474 Periodicals, societies, congresses, serial publications

475 General works, treatises, and textbooks

475.5 Popular works

475.7 Juvenile works

Eyeball

476 General works

476.3 Intraocular pressure

477 Accommodation. Refraction

477.5 Movement

477.8 Cornea

478 Lens

479 Retina

Light perception and discrimination

481 General works

482 Night vision

482.5 After-images

483 Color vision

Binocular vision

487 General works

487.5 Binocular rivalry

Visual space perception

491 General works

492 Form, solidity, size

493 Movement

494 Peripheral vision

495 Optical illusions

Animal biochemistry

For works limited to chemical aspects of biological materials see QD415+

Cf. QH345 General biochemistry and plants and animals

Cf. QR148 Microbiological chemistry

Cf. RB112.5 Clinical biochemistry

Cf. RS400+ Pharmaceutical chemistry

501 Periodicals, societies, congresses, serial publications

509 Collected works (nonserial)

History

511 General works

511.5.A-Z By region or country, A-Z

Biography

511.7 Collective

511.8.A-Z Individual, A-Z

512 Dictionaries and encyclopedias

Animal biochemistry -- Continued

- 513 Early works through 1800
General works, treatises, and textbooks
- 514 1801-1969
- 514.2 1970-
- 517.A-Z Special topics, A-Z
- 517.A55 Allosteric regulation
- 517.B42 Binding sites
- 517.B44 Bioactive compounds
- 517.B48 Biochemical templates
- 517.B49 Bioconjugates
- 517.B5 Biodegradation
- 517.B53 Bioelectrochemistry
- 517.B54 Bioenergetics
Bioluminescence see QH641
- 517.B56 Biomimetics
- 517.B57 Biosynthesis
Biothermodynamics see QP517.T48
- 517.B58 Biotransformation
- 517.C45 Cellular signal transduction
Including second messengers
- 517.C49 Charge transfer in biology
- 517.C54 Chemiluminescence
- 517.C57 Chirality
Computer simulation see QP517.M3
- 517.C66 Cooperative binding
- 517.C78 Cryobiochemistry
- 517.D57 Dissociation
- 517.F66 Fossil biomolecules
- 517.H53 High pressure biochemistry
- 517.H93 Hydrogen bonding
- 517.L54 Ligand binding
- 517.M3 Mathematical models. Computer simulation
- 517.M65 Molecular dynamics
- 517.M66 Molecular orbitals
- 517.M67 Molecular recognition
- 517.P45 Photobiochemistry
- 517.P49 Physical biochemistry
- 517.P76 Protein binding
- 517.Q34 Quantum biochemistry
- 517.R4 Reaction rates
- 517.R48 Rheology
Second messengers see QP517.C45
Signal transduction, Cellular see QP517.C45
- 517.S83 Stereochemistry
- 517.S85 Structure-activity relationships
Cf. RM301.42 Pharmacology

- Animal biochemistry
 - Special topics, A-Z -- Continued
 - 517.S87 Surface chemistry
 - Templates, Biochemical see QP517.B48
 - 517.T48 Thermodynamics
 - 517.5 Biological chemistry as a profession. Vocational guidance
 - Study and teaching. Research
 - 518 General works
 - 518.3 Outlines, syllabi
 - 518.5 Problems, exercises, examinations
 - 519 Laboratory manuals
- Technique. Analytical biochemistry
 - 519.7 General works
 - 519.9.A-Z Special methods, A-Z
 - 519.9.A35 Affinity chromatography
 - 519.9.A36 Affinity electrophoresis
 - 519.9.A37 Affinity labeling
 - 519.9.A94 Autoradiography
 - 519.9.B55 Bioluminescence assay
 - 519.9.B84 Buffer solutions
 - 519.9.C34 Calorimetry
 - 519.9.C36 Capillary electrophoresis
 - 519.9.C37 Capillary liquid chromatography
 - 519.9.C44 Centrifugation
 - Centrifugation, Density gradient see QP519.9.D45
 - 519.9.C47 Chromatography
 - Chromatography, Affinity see QP519.9.A35
 - Chromatography, Countercurrent see QP519.9.C68
 - Chromatography, Gas see QP519.9.G37
 - Chromatography, Gel permeation see QP519.9.G44
 - Chromatography, High performance liquid see QP519.9.H53
 - Chromatography, Ion exchange see QP519.9.I54
 - Chromatography, Liquid see QP519.9.L55
 - Chromatography, Thin layer see QP519.9.T55
 - 519.9.C57 Circular dichroism
 - 519.9.C68 Countercurrent chromatography
 - 519.9.D45 Density gradient centrifugation
 - 519.9.E42 Electrochemical analysis
 - 519.9.E43 Electrodes, Ion selective
 - 519.9.E433 Electron paramagnetic resonance spectroscopy
 - 519.9.E4333 Electron probe microanalysis
 - 519.9.E434 Electrophoresis
 - 519.9.E46 Enzymatic analysis
 - 519.9.E48 Enzyme-linked immunosorbent assay
 - 519.9.F52 Flash photolysis
 - 519.9.F55 Flow injection analysis

Animal biochemistry

Technique. Analytical biochemistry

Special methods, A-Z -- Continued

- 519.9.F56 Fluorescence spectroscopy. Fluorescent probes
 519.9.F58 Fluorimetry
 519.9.G37 Gas chromatography
 519.9.G42 Gel electrophoresis
 519.9.G44 Gel permeation chromatography
 519.9.H53 High performance liquid chromatography
 519.9.I42 Immunoassay
 519.9.I43 Immunoblotting
 Immunoblotting, Western see QP519.9.W47
 Immunoelectrophoresis see QR187.I47
 519.9.I44 Immunoenzyme technique
 519.9.I48 Infrared spectroscopy
 519.9.I54 Ion exchange chromatography
 519.9.I8 Isoelectric focusing
 519.9.I84 Isotachopheresis
 519.9.I87 Isotopes
 519.9.L37 Laser spectroscopy
 519.9.L55 Liquid chromatography
 Liquid chromatography, High performance see
 QP519.9.H53
 519.9.L82 Luminescence immunoassay
 519.9.L84 Luminescence spectroscopy
 519.9.M3 Mass spectrometry
 519.9.M64 Molecular probes
 519.9.N8 Nuclear activation analysis
 519.9.N83 Nuclear magnetic resonance spectroscopy
 519.9.P48 Photoaffinity labeling
 Photolysis, Flash see QP519.9.F52
 519.9.P68 Positron emission tomography
 519.9.P84 Pulsed-field gel electrophoresis
 Radioactivation analysis see QP519.9.N8
 519.9.R28 Radioactive tracers
 519.9.R3 Radioimmunoassay
 519.9.R34 Radioligand assay
 519.9.R36 Raman spectroscopy
 519.9.S45 Separation (Technology)
 519.9.S58 Spectrophotometry
 519.9.S6 Spectroscopy
 Spectroscopy, Electron paramagnetic resonance see
 QP519.9.E433
 Spectroscopy, Fluorescence see QP519.9.F56
 Spectroscopy, Laser see QP519.9.L37
 Spectroscopy, Nuclear magnetic resonance see
 QP519.9.N83

Animal biochemistry

Technique. Analytical biochemistry

Special methods, A-Z -- Continued

Spectroscopy, Raman see QP519.9.R36

Spectroscopy, X-ray see QP519.9.X73

519.9.S85 Supercritical fluid extraction. Supercritical fluid chromatography

519.9.T55 Thin layer chromatography

519.9.T59 Time-resolved spectroscopy

519.9.T84 Two-dimensional electrophoresis

519.9.U47 Ultracentrifugation

519.9.U48 Ultratrace analysis

519.9.V65 Voltage-sensitive dyes

519.9.W47 Western immunoblotting

519.9.X72 X-ray crystallography

519.9.X73 X-ray spectroscopy

520 Handbooks, tables, formulas, etc.

521 Miscellany and curiosa

Special substances

525 Colloids

527 Radicals

Xenobiotics

529 General works

529.5 Plant compounds

Inorganic substances

531 General works, treatises, and textbooks

532 Metals

533 Minerals

534 Trace elements

Cf. TX553.T7 Food value

535.A-Z Elements and their inorganic compounds. By chemical symbol of principal element, A-Z (Table Q1)

Organic substances

550 General works, treatises, and textbooks

Proteins, amino acids, etc.

551 General works, treatises, and textbooks

551.5 Protein-protein interactions

551.6 Proteolysis in general

Including non-enzymatic proteolysis

Enzymatic proteolysis see QP609.P78

552.A-Z Special proteins (other than amino acids, enzymes, or hormones), A-Z

552.A27 Actin

552.A32 Actomyosin

552.A43 Albumins

552.A436 Allosteric proteins

552.A439 Alpha fetoproteins

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

| | |
|-----------|--------------------------------------|
| 552.A4397 | Alpha-synuclein |
| 552.A45 | Amyloid |
| 552.A56 | Antifreeze proteins |
| | Antigens and antibodies see QR186.5+ |
| | Apolipoproteins see QP99.3.A65 |
| 552.A65 | Aquaporins |
| 552.A87 | ATP-binding cassette transporters |
| 552.A94 | Avidin |
| 552.B65 | Bone morphogenetic proteins |
| 552.C17 | C-reactive protein |
| 552.C22 | Calcitonin gene-related peptide |
| 552.C24 | Calcium-binding proteins |
| 552.C28 | Calmodulin |
| 552.C29 | Calreticulin |
| 552.C3 | Carnosine |
| 552.C34 | Carrier proteins |
| 552.C35 | Casein |
| 552.C38 | Cbl proteins |
| 552.C42 | Cell adhesion molecules |
| 552.C45 | Cerebrospinal fluid proteins |
| 552.C48 | Chromogranins |
| 552.C56 | Clusterin |
| 552.C6 | Collagen |
| 552.C62 | Collectins |
| 552.C63 | Connexins |
| 552.C64 | Copper proteins |
| 552.C94 | Cytochromes |
| 552.C96 | Cytoskeletal proteins |
| 552.D95 | Dystrophin |
| 552.E4 | Elastin |
| 552.E53 | Endorphins |
| 552.E54 | Endothelins |
| 552.E55 | Enkephalins |
| 552.E59 | Epidermal growth factor |
| 552.E95 | Extracellular matrix proteins |
| 552.F37 | Fatty acid-binding proteins |
| 552.F47 | Ferritin |
| | Fetoproteins, Alpha see QP552.A439 |
| | Fibrinogen see QP93.5+ |
| 552.F5 | Fibroblast growth factors |
| 552.F53 | Fibronectins |

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

| | |
|----------|---|
| 552.F54 | Flavoproteins |
| 552.G16 | G proteins |
| 552.G25 | Galanin |
| 552.G3 | Gamma globulins |
| 552.G35 | Gastric intrinsic factor |
| 552.G4 | Gelatin |
| 552.G45 | Glial fibrillary acidic protein |
| 552.G5 | Globin |
| 552.G55 | Globulins |
| 552.G58 | Glutathione |
| 552.G59 | Glycoproteins. Glycopeptides |
| 552.G7 | Gramicidins |
| 552.G73 | Green fluorescent protein |
| 552.G76 | Growth factors |
| 552.H3 | Haptoglobins |
| 552.H43 | Heat shock proteins |
| | Hemoglobin see QP96.5 |
| 552.H46 | Hemoproteins |
| 552.H48 | Hepatocyte growth factor |
| 552.H5 | Histones |
| 552.H9 | Hypoglycin |
| | Immunoglobulins see QR186.7+ |
| 552.I54 | Insulin-like growth factor-binding proteins |
| 552.I55 | Integrins |
| 552.I56 | Interphotoreceptor retinoid-binding protein |
| | Intrinsic factor see QP552.G35 |
| 552.I67 | Iron proteins |
| 552.I7 | Iron-sulfur proteins |
| 552.K4 | Keratin |
| 552.K46 | Kinesin |
| 552.K5 | Kinins |
| 552.L3 | Lactalbumin |
| 552.L345 | Lactoferrins |
| 552.L35 | Lactoglobulin |
| 552.L42 | Lectins |
| 552.L48 | Lipocortins |
| 552.L5 | Lipoproteins |
| 552.M44 | Membrane proteins |
| 552.M46 | Metalloproteins |
| 552.M47 | Metallothionein |
| 552.M54 | Milk proteins |

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

| | |
|---------|--|
| 552.M64 | Molecular chaperones |
| 552.M8 | Mucins |
| 552.M85 | Muscle proteins |
| 552.M88 | Myelin proteins. Myelin basic protein |
| 552.M9 | Myohemoglobin |
| 552.M93 | Myosin |
| 552.N36 | Nerve growth factor |
| 552.N37 | Nerve proteins |
| 552.N38 | Neuropeptide Y |
| 552.N39 | Neuropeptides |
| 552.N4 | Neurophysins |
| 552.N43 | Neuropilins |
| 552.N46 | NF-kappa B (DNA-binding protein) |
| 552.N62 | Nonhistone chromosomal proteins |
| 552.N67 | Notch proteins |
| 552.N82 | Nucleopeptides |
| | Nucleoproteins see QP625.N87 |
| 552.O65 | Opioid peptides |
| 552.O77 | Osteopontin |
| 552.O94 | Ovomucoid |
| 552.P25 | p53 protein |
| 552.P4 | Peptides |
| 552.P45 | Peptones |
| 552.P5 | Phosphoproteins |
| | Plasma proteins see QP99.3.P7 |
| 552.P56 | Platelet-derived growth factor |
| 552.P6 | Polypeptides |
| 552.P65 | Pregnancy proteins |
| 552.P7 | Protamines |
| | Protectins see QP552.L42 |
| 552.P73 | Proteoglycans |
| | Prothrombin see QP93.5+ |
| 552.Q55 | Quinoproteins |
| | Receptor-specific proteins see QP552.L42 |
| 552.S32 | Semaphorins |
| 552.S35 | Seminal proteins |
| 552.S37 | Septins |
| 552.S4 | Sericin |
| | Serum albumin see QP99.3.A4 |
| 552.S65 | Somatomedin |
| 552.S74 | Steroid-binding proteins |

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

- 552.S9 Substance P
Sulfur-iron proteins see QP552.I7
Synuclein, Alpha- see QP552.A4397
- 552.S96 Synucleins
- 552.T33 Tachykinins
- 552.T37 Tenascin
- 552.T43 Thaumatin
- 552.T45 Thioredoxin
Thrombin see QP93.5+
- 552.T47 Thrombospondins
- 552.T5 Thyroglobulin
- 552.T55 Thyroprotein
- 552.T68 Transcription factors
- 552.T7 Transferrin
- 552.T72 Transforming growth factors
- 552.T77 TRP channels
- 552.T82 Tubulins
- 552.T83 Tuftsin
- 552.U24 Ubiquitin
- 552.U86 Uteroglobin
- 552.V58 Vitamin K-dependent proteins
- 552.W58 Wnt proteins
- 552.Z55 Zinc proteins
- Amino acids
- 561 General works, treatises, and textbooks
- 562.A-Z Constituents of proteins, A-Z
- 562.A7 Arginine
- 562.A8 Aspartic acid
- 562.B73 Branched chain amino acids
- 562.C9 Cystine
- 562.D53 Diamino amino acids
- 562.G5 Glutamic acid
- 562.G55 Glutamine
- 562.G58 Glycine
Glycocoll see QP562.G58
- 562.H5 Histidine
- 562.L4 Leucine
- 562.L8 Lysine
- 562.M4 Methionine
- 562.P5 Phenylalanine
- 562.P7 Proline

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Amino acids

Constituents of proteins, A-Z -- Continued

562.T5

Threonine

562.T7

Tryptophan

562.T9

Tyrosine

562.V3

Valine

563.A-Z

Other, A-Z

563.A3

Adenosylmethionine

563.A38

Agmatine

563.A48

Aminobutyric acid

563.A5

Aminocaproic acid

563.C5

Citrulline

563.D5

Dihydroxyphenylalanine

DOPA see QP563.D5

563.D66

Dopamine

563.G32

GABA

Gamma-aminobutyric acid see QP563.G32

563.K33

Kainic acid

563.K9

Kynurenine

563.O7

Ornithine

563.T5

Thyroxine

Hormones

571

General works, treatises, and textbooks

571.5

Hormone inhibition

571.7

Hormone receptors

572.A-Z

Special, A-Z

ACTH see QP572.A35

572.A27

Adrenaline

572.A3

Adrenocortical hormones

572.A35

Adrenocorticotrophic hormone

572.A4

Aldosterone

572.A48

Amylin

572.A5

Androgens

572.A52

Androstenedione

572.A54

Angiotensins

Including individual angiotensins

572.A82

Atrial natriuretic peptides

572.C3

Calcitonin

572.C33

Calcium regulating hormones

572.C36

Catechol estrogens

572.C47

Chalones

572.C5

Cholecystokinin

572.C53

Chorionic gonadotropins

- Animal biochemistry
 - Special substances
 - Organic substances
 - Proteins, amino acids, etc.
 - Hormones
 - Special, A-Z -- Continued
 - 572.C6 Corticosterone
 - 572.C62 Corticotropin releasing hormone
 - 572.C65 Cortisone
 - 572.E25 Ecdysone
 - 572.E27 Ecdysteroids
 - 572.E8 Estradiol
 - 572.E85 Estrogen
 - Cf. QP572.P48 Phytoestrogens
 - Estrogens, Catechol see QP572.C36
 - 572.F6 Follicle-stimulating hormone
 - 572.G3 Gastrin
 - 572.G35 Gastrointestinal hormones
 - 572.G45 Ghrelin
 - 572.G5 Glucagon
 - 572.G52 Glucagon-like peptide 1
 - 572.G54 Glucocorticoids
 - 572.G58 Glycoprotein hormones
 - 572.G6 Gonadotropin
 - Growth hormone see QP572.S6
 - 572.G75 Growth hormone releasing factor
 - 572.H85 Hydroxyprogesterone
 - 572.H9 Hypothalamic hormones
 - 572.I47 Inhibin
 - 572.I5 Insulin
 - Intermedin see QP572.M75
 - Lactogenic hormones see QP572.P74
 - 572.L48 Leptin
 - 572.L5 Lipocaic
 - 572.L56 Lipotropin
 - 572.L84 Luteinizing hormone
 - 572.L85 Luteinizing hormone releasing hormone
 - 572.M44 Melatonin
 - 572.M66 Motilin
 - 572.M75 MSH
 - 572.N47 Neurotensin
 - Noradrenalin see QP572.N6
 - 572.N6 Norepinephrine
 - 572.O74 Orexins
 - 572.O9 Oxytocin
 - 572.P3 Parathyroid hormone
 - 572.P33 Parathyroid hormone-related protein

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Hormones

Special, A-Z -- Continued

- 572.P4 Peptide hormones
- 572.P47 Pheromones
- 572.P48 Phytoestrogens
- 572.P5 Pituitary hormone releasing factors
- 572.P52 Pituitary hormones
- 572.P57 Placental hormones
- 572.P67 Pregnenolone
- 572.P7 Progesterone
- 572.P74 Prolactin
- 572.P75 Prosecretin
- 572.P77 Protein hormones
- 572.R46 Relaxin
- 572.S34 Secretin
- 572.S4 Sex hormones
- 572.S59 Somatostatin
- 572.S6 Somatotropin
- 572.S7 Steroid hormones
- 572.T4 Testosterone
- 572.T46 Thymic hormones
- 572.T5 Thyroid hormones
 - Including thyroxine, thyronines, triiodothyronine
- 572.T55 Thyrotropin
- 572.T56 Thyrotropin releasing factor
- 572.V28 Vasoactive intestinal peptides
- 572.V3 Vasopressin

Enzymes

Cf. QK896 Plant enzymes

- 601 General works, treatises, and textbooks
- 601.2 Isoenzymes
- 601.3 Enzyme kinetics
- Enzyme regulation
 - For works on regulation of individual enzymes or enzyme classes, see QP601.7+
- 601.4 General works
- 601.45 Enzyme activation
 - For works on activation of individual enzymes or enzyme classes, see QP601.7+
- 601.5 Enzyme inhibition
 - For works on inhibition of individual enzymes or enzyme classes, see QP601.7+
- 601.6 Extracellular enzymes

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Enzymes -- Continued

Metalloenzymes

601.7

General works

601.75.A-Z

Special, A-Z

601.75.M35

Manganese enzymes

601.75.M64

Molybdenum enzymes

601.75.Z54

Zinc enzymes

601.8

Thiamin pyrophosphate-dependent enzymes

Oxidoreductases

602

General works, treatises, and textbooks

603.A-Z

Special, A-Z

603.A34

Alcohol dehydrogenase

603.A35

Aldehyde dehydrogenase

603.A37

Alpha-keto acid dehydrogenase

603.A4

Amino acid oxidases

Amino oxidase see QP603.M6

603.A8

Ascorbate oxidase

603.C3

Catalase

Catechol oxidase see QP603.D5

603.C45

Cholesterol hydroxylase

Cytochrome c reductase see QP603.R4

603.C85

Cytochrome oxidase

603.C9

Cytochrome peroxidase

603.D4

Dehydrogenases

603.D5

Diphenol oxidase

603.F47

Ferredoxin-NADP reductase

603.G55

Glucose dehydrogenase

603.G57

Glucosephosphate dehydrogenase

603.H45

Heme oxygenase

603.H55

Histaminase

603.H88

Hydrogenase

603.H9

Hydroxylases

603.H92

Hydroxymethylglutaryl coenzyme A reductases

603.I54

IMP dehydrogenase

603.L33

Lactate dehydrogenase

603.L56

Lipoxygenases

603.M48

Methylenetetrahydrofolate reductase

603.M6

Monamine oxidase

603.M65

Monooxygenases

603.N58

Nitrogenase

603.O8

Oxidases

603.O85

Oxygenases

603.P4

Peroxidase

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Enzymes

Oxidoreductases

Special, A-Z -- Continued

| | |
|----------|---|
| 603.P43 | Phenol oxidase |
| 603.P74 | Proline hydroxylase |
| 603.P76 | Prostaglandin synthase |
| 603.P8 | Pyruvate oxidase |
| 603.R4 | Reduced nicotinamide adenine dinucleotide
dehydrogenase |
| 603.R52 | Ribonucleoside diphosphate reductase |
| 603.S9 | Succinate dehydrogenase |
| 603.S94 | Superoxide dismutase |
| 603.T78 | Tryptophan oxygenase |
| | Tyraminase see QP603.M6 |
| | Tyrosinase see QP603.P43 |
| 603.U7 | Urate oxidase |
| | Uricase see QP603.U7 |
| | Transferases |
| 605 | General works, treatises, and textbooks |
| 606.A-Z | Special, A-Z |
| 606.A33 | Acetyltransferases |
| 606.A43 | Aminotransferases |
| 606.A8 | Aspartate aminotransferase |
| 606.C45 | Choline acetylase |
| 606.C73 | Creatine kinase |
| 606.D46 | Deoxyribonucleate nucleotidyltransferases. DNA
polymerases |
| 606.F7 | Fructokinase |
| 606.G5 | Glucan phosphorylase |
| 606.G57 | Glucokinase |
| 606.G573 | Glucuronosyltransferase |
| 606.G58 | Glutamic-aspartic transaminase |
| 606.G59 | Glutathione transferase |
| 606.G592 | Glycogen phosphorylase |
| 606.G6 | Glycosyltransferases |
| | Kinase, Protein see QP606.P76 |
| 606.M48 | Methyltransferases |
| 606.P53 | Phosphofructokinase |
| 606.P55 | Phosphotransferases |
| 606.P76 | Protein kinases |
| 606.P78 | Protein-tyrosine kinase |
| 606.R48 | Reverse transcriptase |
| 606.R49 | Rho-associated protein kinases |

- Animal biochemistry
 - Special substances
 - Organic substances
 - Proteins, amino acids, etc.
 - Enzymes
 - Transferases
 - Special, A-Z -- Continued
 - 606.R53 Ribonucleate nucleotidyltransferases. RNA polymerases
 - 606.S85 Sulfotransferases
 - 606.T44 Telomerase
 - Transaminases see QP606.A43
 - 606.T73 Transglutaminases
 - 606.T75 Transketolase
 - 606.U7 Uridine diphosphoglucuronosyltransferase
 - Hydrolases
 - 608 General works, treatises, and textbooks
 - 609.A-Z Special, A-Z
 - 609.A25 Acetylcholinesterase
 - 609.A3 Adenosine triphosphatase
 - 609.A38 Alanine aminopeptidase
 - 609.A4 Alkaline phosphatase
 - 609.A43 Allantoinase
 - 609.A438 Amidases
 - 609.A44 Aminopeptidases
 - 609.A45 Amylase
 - 609.A53 Angiotensin converting enzyme
 - 609.A7 Arginase
 - 609.A77 Arylsulphatases
 - 609.A86 Aspartic proteinases
 - 609.A88 Astacins
 - 609.B46 Beta lactamases
 - 609.C26 Calpain
 - 609.C3 Carboxypeptidase
 - 609.C34 Caseinolytic proteases
 - 609.C35 Cathepsin
 - 609.C37 Cellulase
 - 609.C38 Cellulose 1,4-beta-cellobiosidase
 - 609.C39 Chitinase
 - 609.C4 Cholinesterase
 - Chymosin see QP609.R4
 - 609.C45 Chymotrypsin
 - 609.C6 Coagulase
 - 609.C64 Collagenase
 - Converting enzyme, Angiotensin see QP609.A53
 - 609.C92 Cyclic nucleotide phosphodiesterases
 - 609.C93 Cyclin-dependent kinases

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Enzymes

Hydrolases

Special, A-Z -- Continued

| | |
|---------|---------------------------------------|
| 609.C94 | Cysteine proteinases |
| 609.D4 | Deoxyribonucleases |
| 609.D48 | Dextranase |
| | Diastase see QP609.A45 |
| 609.D52 | Digestive enzymes |
| 609.D54 | Dipeptidases |
| | DNA restriction enzymes see QP609.R44 |
| 609.E38 | Elastases |
| 609.E4 | Emulsin |
| 609.E44 | Endonucleases |
| 609.E7 | Erepsin |
| 609.E8 | Esterases |
| 609.F7 | Fructofuranosidase |
| | Fructose diphosphatase see QP609.H5 |
| 609.G3 | Galactosidase |
| 609.G38 | Glucose-6-phosphatase |
| 609.G4 | Glucosidases |
| 609.G44 | Glycoasparaginase |
| 609.G45 | Glycosidases |
| 609.G83 | Guanosine triphosphatase |
| 609.H5 | Hexosediphosphatase |
| 609.H8 | Hyaluronidase |
| | Invertase see QP609.F7 |
| 609.K3 | Kallikrein |
| | Lactamases, Beta see QP609.B46 |
| | Lactase see QP609.G3 |
| 609.L43 | Lecithinase |
| 609.L5 | Lipase |
| 609.L55 | Lipolytic enzymes |
| 609.L9 | Lysozyme |
| 609.N48 | Neutral proteinases |
| 609.N78 | Nucleases |
| 609.N8 | Nucleosidases |
| 609.P3 | Papain |
| 609.P35 | Paraoxonase |
| | Pectinase see QP609.P6 |
| 609.P4 | Pepsin |
| 609.P45 | Peptidases (Exopeptidases) |
| 609.P5 | Phosphatases |
| 609.P52 | Phosphatidate phosphatase |

Animal biochemistry

Special substances

Organic substances

Proteins, amino acids, etc.

Enzymes

Hydrolases

Special, A-Z -- Continued

- 609.P53 Phosphodiesterase
 - 609.P55 Phospholipase
 - 609.P553 Phospholipase A2
 - 609.P555 Phospholipase C
 - 609.P56 Phosphoprotein phosphatases
 - 609.P6 Polygalacturonase
 - Proteases see QP609.P78
 - 609.P75 Proteinases (Endopeptidases)
 - 609.P78 Proteolytic enzymes
 - Including enzymatic proteolysis
 - 609.P85 Pullulanase
 - 609.R38 Renin
 - 609.R4 Rennin
 - 609.R44 Restriction enzymes, DNA
 - 609.R49 Rho GTPases
 - 609.R53 Ribonucleases
 - 609.S47 Serine proteinases
 - 609.S63 Sodium-potassium ATPase
 - 609.S93 Subtilisins
 - 609.S95 Sulfatases
 - Thrombin see QP93.5+
 - 609.T7 Trypsin
 - Trypsinogen see QP609.T7
 - 609.U7 Urease
- Lyases
- 612 General works, treatises, and textbooks
 - 613.A-Z Special, A-Z
 - 613.A33 Adenylate cyclase
 - 613.A4 Aldolases
 - 613.A75 Aromatic amino acid decarboxylase
 - Carbonate dehydratase see QP613.C37
 - 613.C37 Carbonic anhydrase
 - Carboxylase see QP613.P9
 - 613.E56 Enolase
 - 613.G8 Guanylate cyclase
 - 613.O75 Ornithine decarboxylase
 - 613.P54 Phenylalanine ammonia lyase
 - Phosphopyruvate hydratase see QP613.E56
 - 613.P9 Pyruvate decarboxylase
- Isomerases

- Animal biochemistry
 - Special substances
 - Organic substances
 - Nucleic acids
 - Deoxyribonucleic acids
 - Special topics, A-Z -- Continued
 - Replication
 - Satellite DNA
 - Stability
 - Structure
 - Z-DNA
 - DNA-ligand interactions
 - General works, treatises, and textbooks
 - Special ligands, A-Z
 - Drugs
 - Proteins
 - Other related substances, A-Z
 - Adenine nucleotides
 - Adenosine
 - Adenosine diphosphate ribose
 - Adenosine triphosphate
 - Adenylic acid
 - Bromodeoxyuridine
 - Binucleoside polyphosphates
 - Inosine
 - NAD (Coenzyme)
 - Nuclein
 - Nucleohistones
 - Nucleoproteins
 - Nucleosides
 - Nucleotides
 - Oligoadenylates
 - Oligonucleotides
 - Pseudouridine
 - Purine nucleotides
 - Pyridine nucleotides
 - Quadruplex nucleic acids
 - Triple-helix-forming oligonucleotides
 - Toxins and antitoxins
 - Cf. QR180+ Immunology
 - Cf. RM278 Immunotherapy
 - General works, treatises, and textbooks
 - Special, A-Z
 - Bacterial toxins
 - Bombesin
 - Botulinum toxin
 - Cyanobacterial toxins

624.5.R48
 624.5.S26
 624.5.S73
 624.5.S78
 624.5.Z33

624.74
 624.75.A-Z
 624.75.D77
 624.75.P74

625.A-Z
 625.A25
 625.A27
 625.A29
 625.A3
 625.A35
 625.B76
 625.D56
 625.I54
 625.N34
 625.N8
 625.N86
 625.N87
 625.N88
 625.N89
 625.O45
 625.O47
 625.P74
 625.P87
 625.P96
 625.Q33
 625.T75

631
 632.A-Z
 632.B3
 632.B64
 632.B66
 632.C87

Animal biochemistry

Special substances

Organic substances

Toxins and antitoxins

Special, A-Z -- Continued

| | |
|---------|------------------------------|
| 632.C9 | Cytochalasins |
| 632.D54 | Digitoxin |
| 632.E4 | Endotoxins |
| 632.I57 | Insect venoms |
| 632.M37 | Marine toxins. Marine venoms |
| 632.M52 | Microbial toxins |
| 632.M9 | Mycotoxins |
| 632.P47 | Pertussis toxin |
| 632.R43 | Recombinant toxins |
| 632.S27 | Saxitoxin |
| 632.S65 | Snake toxins. Snake venoms |
| 632.T46 | Tetrodotoxin |
| 632.T75 | Trichothecenes |
| 632.V46 | Venom |

Cf. QP632.I57 Insect venoms

Pigments

General works, treatises, and textbooks

Special, A-Z

| | |
|---------|---|
| 670 | General works, treatises, and textbooks |
| 671.A-Z | Special, A-Z |
| 671.B5 | Bile pigments |
| 671.B55 | Bilirubin |
| 671.C3 | Carotenes. Carotin |
| 671.C35 | Carotenoids. Carotinoids |
| 671.C45 | Chlorophyll |
| 671.C78 | Cytochrome b |
| 671.C8 | Cytochrome c |
| 671.C83 | Cytochrome P-450 |
| 671.C85 | Cytochromes |
| 671.F5 | Flavins |
| 671.F52 | Flavonoids |
| 671.H4 | Hematoporphyrin |
| 671.H45 | Heme |
| 671.I5 | Iodopsin |
| 671.L52 | Lipofuscins |
| 671.M44 | Melanin |
| 671.P6 | Porphyrins |
| 671.V5 | Visual pigments |
| 671.X3 | Xanthopterin |

Carbohydrates

General works, treatises, and textbooks

Special, A-Z

| | |
|---------|---|
| 701 | General works, treatises, and textbooks |
| 702.A-Z | Special, A-Z |
| 702.A3 | Agar |
| 702.A35 | Aglucones |

- Animal biochemistry
 - Special substances
 - Organic substances
 - Carbohydrates
 - Special, A-Z -- Continued
 - Amino sugars
 - Amyloses
 - Chitin
 - Chondroitin sulfates
 - Cyclitols
 - Deoxy sugars
 - Deoxyribose
 - Fluorocarbohydrates
 - Fructans
 - Fructose
 - Fructose-2,6-bisphosphate
 - Galactose
 - Glucans
 - Glucides
 - Glucosamine
 - Glucose
 - Glucuronic acid
 - Glucuronides
 - Glycoconjugates
 - Glycogen
 - Glycosides
 - Heparin
 - Hexosamines
 - Hyaluronic acid
 - Imino sugars
 - Inositol see QP772.I5
 - Inulin
 - Lactose
 - Mucopolysaccharides
 - Oligosaccharides
 - Pectins
 - Pentoses
 - Peptidoglycans
 - Polysaccharides
 - Saponins
 - Sorbitol
 - Starch
 - Sucrose
 - Sugars
 - Xylans
 - Xylitol
 - Xylose

702.A4
702.A48
702.C5
702.C55
702.C8
702.D38
702.D4
702.F58
702.F68
702.F7
702.F73
702.G3
702.G48
702.G5
702.G55
702.G56
702.G57
702.G572
702.G577
702.G58
702.G59
702.H4
702.H45
702.H8
702.I45

702.I5
702.L3
702.M8
702.O44
702.P4
702.P45
702.P47
702.P6
702.S28
702.S6
702.S75
702.S8
702.S85
702.X87
702.X89
702.X9

Animal biochemistry

Special substances

Organic substances -- Continued

Lipids

Cf. TP676 Chemical technology of animal fats and oils

Cf. TX553.L5 Lipids as a food constituent

751

General works, treatises, and textbooks

752.A-Z

Special, A-Z

752.A25

Acetic acid

752.A5

Androstane

752.A7

Arachidonic acid

752.B54

Bile acids

Bile pigments see QP671.B5

752.C37

Ceramides

752.C4

Cerebrosides

Cholesterin see QP752.C5

752.C5

Cholesterol

752.C53

Cholesterol oxides

752.C55

Cholic acid

752.C6

Corticosteroids

752.C7

Croton oil

752.D54

Diglycerides

752.D63

Docosahexaenoc acid

752.E53

Eicosanoids

752.E84

Essential fatty acids

752.F3

Fats

752.F35

Fatty acids

752.F57

Fish oils

752.G3

Gangliosides

752.G5

Glycerides

Glycerin see QP752.G55

752.G55

Glycerol

752.G56

Glycolipids

752.G58

Glycosphingolipids

752.I8

Isobutyric acid

Isopentenoids see QP752.T47

Isoprenoid compounds see QP752.T47

752.L4

Lecithin

752.L5

Linoleic acids

752.L515

Linolenic acids

752.L52

Lipoxins

752.L8

Lysolecithin

752.L83

Lysophospholipids acid

752.M45

Membrane lipids

752.M9

Myelin

752.O42

Olive oil

Animal biochemistry

Special substances

Organic substances

Lipids

Special, A-Z -- Continued

- 752.O44 Omega-3 fatty acids
- 752.O45 Omega-6 fatty acids
- 752.O89 Oxysterols
- 752.P35 Palm oil
- Phosphatides see QP752.P53
- 752.P52 Phosphoinositides
- 752.P53 Phospholipids
- 752.P62 Platelet activating factor
- 752.P65 Polyketides
- 752.P69 Prostacyclin
- Prostaglandins see QP801.P68
- 752.P7 Protagon
- 752.P84 Pulmonary surfactant
- 752.S37 Saturated fatty acids
- 752.S6 Sphingolipids
- Steroid hormones see QP572.S7
- 752.S7 Steroids
- 752.S75 Sterols
- 752.T47 Terpenes. Isopentenoids. Isoprenoid compounds
- 752.T63 Trans fatty acids
- 752.T7 Tributyrin
- 752.T74 Triglycerides
- 752.W3 Waxes

Vitamins

- 771 General works, treatises, and textbooks
- 772.A-Z Special, A-Z
 - Adermine see QP772.P9
 - Aminobenzoic acids
 - Aneurine see QP772.T5
 - Antihemorrhage vitamin see QP772.V55
 - Antipernicious anemia vitamin see QP772.C9
 - Antirickets vitamin see QP772.V53
 - Antiscorvy vitamin see QP772.A8
 - Antisterility vitamin see QP772.T6
 - Antixerophthalmia vitamin see QP772.V5
- 772.A8 Ascorbic acid. Vitamin C
- 772.B5 Bioflavonoids. Vitamin P
- 772.B55 Biotin. Vitamin H
- 772.C3 Carnitine. Vitamin BT
- 772.C5 Choline
- 772.C9 Cyanocobalamine. Vitamin B12
- 772.E74 Ergocalciferol. Vitamin D2

- Animal biochemistry
 - Special substances
 - Organic substances
 - Vitamins
 - Special, A-Z -- Continued
 - 772.F37 Fat-soluble vitamins
 - Folacin see QP772.F6
 - 772.F6 Folic acid. Vitamin M
 - 772.I5 Inositol
 - Lipoic acid see QP772.T54
 - Niacin see QP772.N55
 - Niacin amide see QP772.N5
 - 772.N5 Nicotinamide. Vitamin PP
 - 772.N55 Nicotinic acid. Niacin
 - Nicotinic acid amide see QP772.N5
 - 772.P3 Pangamic acid. Vitamin B15
 - 772.P35 Pantothenic acid. Vitamin B5
 - Pellagra preventive factor see QP772.N5
 - Pteroylglutamic acid see QP772.F6
 - 772.P9 Pyridoxine. Vitamin B6
 - Retinol see QP772.V5
 - 772.R5 Riboflavin. Vitamin B2
 - 772.T5 Thiamine. Vitamin B1
 - 772.T54 Thioctic acid
 - 772.T6 Tocopherol. Vitamin E
 - 772.V5 Vitamin A
 - 772.V52 Vitamin B complex
 - Vitamin B1 see QP772.T5
 - Vitamin B2 see QP772.R5
 - Vitamin B5 see QP772.P35
 - Vitamin B6 see QP772.P9
 - Vitamin B12 see QP772.C9
 - Vitamin B15 see QP772.P3
 - Vitamin BT see QP772.C3
 - Vitamin C see QP772.A8
 - 772.V53 Vitamin D
 - Vitamin D2 see QP772.E74
 - Vitamin E see QP772.T6
 - Vitamin G see QP772.R5
 - Vitamin H see QP772.B55
 - 772.V55 Vitamin K
 - 772.V56 Vitamin K2
 - Vitamin M see QP772.F6
 - Vitamin P see QP772.B5
 - Vitamin PP see QP772.N5
 - 772.W38 Water-soluble vitamins
 - 801.A-Z Miscellaneous organic substances, A-Z

Animal biochemistry

Special substances

Organic substances

Miscellaneous organic substances, A-Z -- Continued

| | |
|-----------|-------------------------------|
| 801.A25 | Acetone |
| 801.A26 | Acids |
| 801.A3 | Alcohol |
| 801.A33 | Aldehydes |
| 801.A34 | Alkaloids |
| 801.A35 | Allantoin |
| 801.A48 | Amines |
| 801.A63 | Antibiotics |
| 801.A65 | Antimetabolites |
| 801.A66 | Antioxidants |
| 801.A67 | Antivitamins |
| 801.A75 | Aromatic compounds |
| 801.A84 | Aspartame |
| 801.B5 | Benzene |
| 801.B52 | Benzimidazoles |
| 801.B53 | Benzodiazepines |
| 801.B54 | Benzoyllecgonine |
| 801.B55 | Betaines |
| 801.B66 | Biogenic amines |
| 801.B69 | Biopolymers |
| 801.C24 | Caffeine |
| 801.C27 | Cannabis |
| 801.C3 | Carbolic acid |
| 801.C3115 | Carbolines |
| 801.C312 | Carboxylic acids |
| 801.C33 | Catecholamines |
| 801.C4 | Cerebrin |
| 801.C48 | Chlorophenols |
| 801.C63 | Citrates |
| 801.C65 | Citric acid |
| | Coca see QP801.C68 |
| 801.C67 | Cocaethylene |
| 801.C68 | Cocaine |
| 801.C69 | Colchicine |
| 801.C7 | Colicins |
| 801.C75 | Complex compounds |
| 801.C8 | Creatine. Creatinine |
| 801.C83 | Crown ethers |
| 801.C86 | Cyclic adenylic acid |
| | Cynurenic acid see QP801.K8 |
| 801.E28 | Ecstasy (Drug) |
| 801.E325 | EDDP (Pyrrolidine derivative) |
| 801.F45 | Flavor components |

Animal biochemistry

Special substances

Organic substances

Miscellaneous organic substances, A-Z -- Continued

| | |
|-----------|---------------------------------------|
| 801.F5 | Fluorine organic compounds |
| 801.F67 | Formaldehyde |
| 801.F87 | Furylbenzimidazole |
| 801.G47 | Germanium organic compounds |
| 801.G57 | Glutaric acid |
| 801.G63 | Glycolic acid |
| (801.G74) | Growth factors
see QP552.G76 |
| 801.G8 | Guanidine |
| 801.G83 | Guanidines |
| 801.H34 | Halogen organic compounds |
| 801.H45 | Hippuric acid |
| 801.H5 | Histamine |
| 801.H78 | Hydrazines |
| 801.H9 | Hydrocarbons |
| 801.I4 | Indican (metabolic product) |
| 801.I43 | Indocyanine green |
| 801.I45 | Indole |
| | Inositol see QP772.I5 |
| 801.I48 | Insecticides |
| | Interleukins see QR185.8.I56 |
| 801.I55 | Ionophores |
| (801.I76) | Isoprenoid compounds
see QP752.T47 |
| 801.K4 | Ketones |
| 801.K8 | Kynurenic acid |
| 801.L3 | Lactic acid |
| | Leucomaines see QP801.P7 |
| 801.L47 | Leukotrienes |
| 801.L53 | Lignans |
| 801.L97 | Lysergic acid diethylamide |
| | Macromolecules see QP801.P64 |
| | Marijuana see QP801.C27 |
| 801.M37 | Mercapto compounds. Thiols |
| 801.M39 | Metformin |
| 801.M42 | Methoxyhydroxyphenylglycol |
| 801.M425 | Methylxanthines |
| 801.M43 | Metiamide |
| 801.M45 | Mevalonic acid |
| | Milk, Human see QP246 |
| 801.N44 | Neopterin |
| 801.N48 | Nicotine |
| 801.N55 | Nitrogen organic compounds |

Animal biochemistry

Special substances

Organic substances

Miscellaneous organic substances, A-Z -- Continued

Organo ...

For compounds with names beginning "Organo..." the
Cutter number is determined by the element or
substance following this prefix

| | |
|----------|------------------------------------|
| 801.O74 | Orotic acid |
| 801.O8 | Oxalic acid |
| 801.P28 | Pantethine |
| 801.P36 | Penicillin |
| 801.P374 | Pentoxifylline |
| 801.P38 | Pesticides |
| 801.P39 | Phenethylamines |
| 801.P4 | Phenols |
| 801.P56 | Phosphonic acids |
| 801.P63 | Phosphorus organic compounds |
| 801.P634 | Phytic acid |
| 801.P636 | Phytochemicals |
| 801.P638 | Polyamines |
| 801.P639 | Polycyclic aromatic hydrocarbons |
| 801.P64 | Polymers. Macromolecules |
| 801.P643 | Polyurethanes |
| 801.P654 | PQQ |
| 801.P68 | Prostaglandins |
| 801.P686 | Psoralens |
| 801.P69 | Pteridines |
| 801.P7 | Ptomaines. Leucomaines |
| 801.P8 | Purines |
| 801.P85 | Pyrimidines |
| 801.P855 | Pyrrolizidines |
| 801.P86 | Pyruvic acid |
| 801.Q5 | Quinones |
| 801.R4 | Reductones |
| 801.R47 | Retinoids |
| 801.S4 | Serotonin |
| 801.S44 | Shikimic acid |
| 801.S47 | Sialic acid |
| 801.S79 | Succinic acid |
| 801.S85 | Sulfonic acids |
| 801.T3 | Taurine |
| | Tetrahydrocannabinol see QP801.C27 |
| 801.T4 | Thiocyanates |
| | Thiols see QP801.M37 |
| 801.T57 | Tobacco |
| 801.T6 | Tolylenediamine |

Animal biochemistry

Special substances

Organic substances

Miscellaneous organic substances, A-Z -- Continued

801.U24

Ubiquinones

801.U7

Urea

Vitamins see QP771+

801.X45

Xenobiotics

(901-981)

Experimental pharmacology

The Library of Congress has not classed new material on experimental pharmacology in these numbers since approximately 1981.

For works on the physiological effects of chemical substances on the animal body see QP501+

For works on experimental toxicology see RA1199+

For works on experimental pharmacology in general see RM301.25+

(911-981)

Individual chemical substances

see QP525+ for the physiological effects of individual chemical substances on the animal body

For works on the physiological effects of drugs on the human body see RM300+

- Microbiology
- 1 Periodicals, societies, congresses, serial publications
- 6 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 11 Terminology, notation, abbreviations
- 12 Classification. Nomenclature
Cf. QR81 Bacteria
Cf. QR394 Viruses
- 13 Evolution
- History
- 21 General works
- 22.A-Z By region or country, A-Z
- Biography
- 30 Collective
- 31.A-Z Individual, A-Z
e.g.
31.F5 Fleming, Alexander
31.K6 Koch, Robert
Pasteur, Louis see Q143.P2
- General works, treatises, and textbooks
- 41 Through 1969
- 41.2 1970-
- By discipline
- 46 Medical microbiology
Cf. QR67+ Diagnostic technique
Cf. QR171.A1+ Microorganisms in the animal body
Cf. RC109+ Infections and parasitic diseases
- 46.5 Pharmaceutical microbiology
- 47 Dental microbiology
Cf. RK325 Oral sepsis
- 48 Sanitary microbiology
Cf. QR105+ Aquatic microbiology
Cf. TD1+ Sanitary engineering
- Veterinary microbiology see SF780.2
- 51 Agricultural microbiology
Cf. QR111+ Soil microbiology
Cf. QR121 Dairy microbiology
Cf. QR351 Microorganisms of plant diseases
- Geomicrobiology see QR103
- Industrial microbiology
Cf. QR115+ Food microbiology
Cf. QR135+ Microbial degradation
Cf. QR151+ Microorganisms of fermentation
Cf. TP248.27.M53 Microbial biotechnology
- 53 General works, treatises, and textbooks
- 53.5.A-Z By industry or products, etc., A-Z
- 53.5.A44 Alloys

By discipline

Industrial microbiology

By industry or products, etc., A-Z -- Continued

53.5.C73

Coal

53.5.C76

Cosmetics

53.5.P48

Petroleum

53.5.R34

Railroads

Including railroad tracks, railroad ties, railroad beds, etc.

54

Pictorial works and atlases

56

Popular works

57

Juvenile works

58

Addresses, essays, lectures

60

Special aspects of the subject as a whole

Study and teaching. Research

61

General works

61.5

Problems, exercises, examinations

61.7

Experiments

62

Outlines, syllabi

63

Laboratory manuals

Laboratories

Cf. R108 Medical laboratories

64.A1

General works

64.A3-Z

By region or country, A-Z

Subarrange each country by Table Q6

64.5

Culture collections

64.7

Safety measures

64.8

Quality control

Technique

65

General works

Culture technique

66

General works

66.3

Culture media

66.4

Continuous culture

Diagnostic technique

67

General works

67.2

Diagnostic bacteriology

Microscope technique

Cf. QH201+ Microscopy

68

General works

68.5.A-Z

Special, A-Z

68.5.E45

Electron microscopy

69.A-Z

Special topics, A-Z

69.A56

Anti-infective agent testing

69.A57

Antibiotic testing

Antiinfective agent testing see QR69.A56

69.A88

Automation

69.B53

Bioluminescence assay

Technique

Special topics, A-Z -- Continued

- 69.C3 Cataphoresis
- 69.C79 Cryopreservation
- 69.D35 Data processing
- 69.D48 Disintegration
- 69.D54 DNA probes
- 69.E43 Electric impedance measurement
- 69.E58 Enzyme-linked immunosorbent assay
- 69.F56 Flow cytometry
- 69.F7 Freeze-drying. Drying
- 69.G27 Gas chromatography
- 69.H54 High performance liquid chromatography
- 69.I53 Inactivation
- 69.M33 Mass spectrometry
- 69.M48 Microbiological assay
- 69.M5 Micrurgy
- 69.N83 Nuclear magnetic resonance spectroscopy
- 69.P6 Population counts
- 69.S7 Staining
- 69.S75 Sterilization
- 69.V53 Viability counts
- 71 Laboratory equipment
- 72 Statistical methods
- 72.5 Handbooks, manuals, etc.
- Microbial genetics see QH434
- 73 Diversity and variation
 - Cf. QR392 Virus variation
- 73.4 Development
- 73.5 Differentiation
- 73.6 Aggregation
- 73.7 Cell cycle
- 73.8 Microbial populations
- 74 Molecular microbiology
- 74.5 Protista
 - Cf. QK564+ Algae
 - Cf. QK600+ Fungi
 - Cf. QK635.A1+ Slime molds
 - Cf. QL366+ Protozoa
- Bacteria
 - 74.8 General works
 - Morphology. Ultrastructure
 - 75 General works
 - 75.3 Size
 - 75.5 Shape
 - 76 Protoplasm
 - 76.3 Protoplasts

Bacteria

Morphology. Ultrastructure -- Continued

- 76.5 Nuclear materials
- 76.6 Plasmids
- 76.7 Pigments
- 77 Cell membranes
- Cell walls
- 77.3 General works
- 77.35 Cell surfaces
- 77.5 Capsules. Slime layers
- 78 Flagella
- 78.5 Pili
- 79 Spores
- 79.5 Colonies
- 80 Terminology, notation, abbreviations
- 81 Classification. Nomenclature
- 81.5 Catalogs and collections
- 81.7 Evolution
- 82.A-Z Systematic divisions. By family or higher taxa, A-Z
 - Class individual genera under the family.
 - For unassigned genera and species see QR82.Z9
 - For bacteria of specific diseases see QR201.A+
- 82.A3 Achromatiaceae
- 82.A35 Actinomycetaceae
- 82.A355 Actinoplanaceae
- 82.A39 Aegyptianella
- Aerobacter cloacae see QR82.E6
- 82.A43 Aeromonadaceae
- 82.A69 Archaeobacteria
- 82.A9 Azotobacteraceae
- 82.B3 Bacillaceae
- 82.B35 Bacteroidaceae
- 82.B4 Beggiatoaceae
- 82.B95 Brucellaceae
- 82.C35 Chlamydiaceae
- 82.C4 Chlorobiaceae
- 82.C45 Chromatiaceae
- 82.C6 Corynebacteriaceae
- 82.C88 Cystobacteraceae
- 82.C9 Cytophagaceae
- 82.D37 Deinococcaceae
- 82.D4 Dermatophilaceae
- 82.E6 Enterobacteriaceae
- 82.F7 Frankiaceae
- 82.L3 Lactobacillaceae
- 82.L4 Leucotrichaceae
- 82.M38 Methylobacteriaceae

Systematic divisions. By family or higher taxa, A-Z -- Continued

| | |
|--------|--|
| 82.M4 | Methylomonadaceae |
| 82.M45 | Microbacteriaceae |
| 82.M5 | Micrococcaceae |
| 82.M55 | Micromonosporaceae |
| 82.M8 | Mycobacteriaceae |
| 82.M95 | Myxococcaceae |
| 82.N4 | Neisseriaceae |
| 82.N5 | Nitrobacteraceae |
| 82.N6 | Nocardiaceae |
| 82.P25 | Pasteurellaceae |
| 82.P44 | Pelonemataceae |
| 82.P45 | Peloplocaceae |
| 82.P47 | Peptococcaceae |
| 82.P6 | Polyangiaceae |
| 82.P7 | Propionibacteriaceae |
| 82.P78 | Pseudomonadaceae |
| 82.R45 | Rhizobiaceae |
| 82.R46 | Rhodospirillaceae |
| 82.R47 | Rhodospirillales |
| 82.S5 | Simonsiellaceae |
| 82.S6 | Spirillaceae |
| 82.S7 | Spirochaetaceae |
| 82.S78 | Streptococcaceae |
| 82.S8 | Streptomycetaceae |
| 82.T7 | Treponemataceae |
| 82.V4 | Veillonellaceae |
| 82.V53 | Vibrionaceae |
| 82.Z9 | Genera and species as yet unassigned (not A-Z) |
| | Physiology |
| 84 | General works |
| | Growth |
| | Cf. QR66+ Culture technique |
| 84.5 | General works |
| 84.7 | Psychrophilic bacteria |
| 84.8 | Thermophilic bacteria |
| 86 | Nutrition |
| 86.5 | Reproduction |
| | Metabolism |
| 88 | General works |
| 88.2 | Autotrophy |
| 88.3 | Biosynthesis |
| 88.4 | Methylotrophy |
| 88.5 | Photosynthesis |
| | Cf. QK882 Plant physiology |
| 88.7 | Chemoautotrophy |
| | Respiration |

Bacteria

Physiology

Metabolism

Respiration -- Continued

89

General works

89.5

Anaerobic

89.7

Nitrogen fixation

Cf. TP245.N8 Chemical engineering

90

Enzymes

92.A-Z

Other substances, A-Z

92.A3

Acetic acid

92.A49

Alkanes

92.A6

Amino acids

92.B3

Bacteriocins

92.B7

Branched chain amino acids

92.C27

Calcium

92.C3

Carbohydrates

92.C33

Carbon dioxide

92.C55

Chlorinated aromatic compounds

92.C57

Citric acid

92.C74

Creatine

92.D45

Deoxyribonucleic acid. DNA

DNA see QR92.D45

92.F3

Fatty acids

92.F87

Furans

92.G35

Galactose

92.G5

Glucose

92.H6

Hormones

92.H8

Hydrogen

92.I4

Immunoglobulin-binding proteins

92.I7

Iron

92.L5

Lipids

92.M45

Metals

92.M46

Methane

92.M47

Methyl groups

92.M5

Minerals

92.N5

Nicotinic acid

92.N6

Nitrogen

92.N8

Nucleic acids

92.N82

Nucleotides

Oxygen see QR89+

92.P37

Peptides

92.P39

Peptidoglycans

92.P4

Phenols

92.P45

Phosphates

92.P58

Poly-beta-hydroxyalkanoates

92.P59

Polymers

Bacteria

Physiology

Metabolism

Other substances, A-Z -- Continued

- 92.P6 Polysaccharides
- 92.P7 Propionic acid
- 92.P75 Protein A, Staphylococcal see QR92.S68
- 92.P87 Proteins
- 92.S3 Purines
- 92.S53 Salts
- 92.S68 Siderophores
- 92.S7 Staphylococcal protein A
- 92.S79 Steroids
- 92.S8 Sugars
- 92.V5 Sulfur
- 92.X35 Vitamins
- 93 Xanthan gum
- 94 Anhydrobiosis
- 95 Heat production
- 96 Light production
- 96.5 Motility. Irritability
- 96.8 Interaction. Communication
- Adhesion
- Environmental factors
- 97.A1 General works
- 97.A2-Z By factor, A-Z
- 97.A3 Acidity. Alkalinity. Hydrogen-ion concentration
- Alkalinity see QR97.A3
- 97.A57 Anti-infective agents
- 97.A58 Antibiotics
- 97.B32 Bactericides
- 97.C3 Carbon dioxide
- 97.C5 Chemicals
- 97.E5 Electrolytes
- 97.H4 Heat
- Hydrogen-ion concentration see QR97.A3
- 97.L5 Light
- 97.M34 Magnetism
- (97.M6) Moisture
- see QR97.W37
- 97.O8 Oxygen
- 97.P47 Pesticides
- 97.P7 Pressure
- 97.R3 Radiation
- 97.S3 Salinity

- Bacteria
 - Physiology
 - Environmental factors
 - By factor, A-Z -- Continued
 - 97.T4 Temperature
 - Cf. QR84.7 Psychrophilic bacteria
 - Cf. QR84.8 Thermophilic bacteria
 - 97.W37 Water. Moisture
 - 97.X46 Xenobiotics
 - Antibiosis
 - Cf. QP801.A63 Biochemistry of antibiotics
 - Cf. QR69.A57 Testing
 - Cf. QR175 Virulence
 - Cf. RM265+ Antibiotic therapy
 - Cf. RM666.A+ Pharmacology of individual antibiotic drugs
 - Cf. RS431.A6 Pharmaceutical chemistry of antibiotics
 - 99 General works
 - 99.5 Resistance
- Cyanobacteria
 - 99.6 Periodicals. Serials
 - 99.62 Congresses
 - 99.63 General works, treatises, and textbooks
 - 99.64 Pictorial works and atlases
 - 99.65 Popular works
 - 99.66 Juvenile works
 - 99.67 Classification. Nomenclature
 - 99.69.A-Z Special topics, A-Z
 - 99.69.B55 Blooms
 - Cyanobacterial blooms see QR99.69.B55
 - 99.7.A-Z Systematic divisions. By family, A-Z
 - 99.7.E57 Entophysalidaceae
 - 99.7.N67 Nostocaceae
 - 99.7.O82 Oscillatoriaceae
 - 99.7.S39 Scytonemataceae
 - 99.7.S85 Stigonemataceae
 - 99.8.A-Z By region or country, A-Z
- Microbial ecology. Geographical distribution
 - 100 General works, treatises, and textbooks
 - 100.8.A-Z By type of relationship, A-Z
 - 100.8.B55 Biofilms
 - 100.8.C65 Competition
 - 100.8.D46 Denitrification
 - Including denitrifying bacteria
 - 100.8.M37 Mats
 - 100.8.S9 Symbiosis
 - By type of environment

Microbial ecology

By type of environment -- Continued

- 100.9 Extreme environments (General)
- 101 Air and dust
- 103 Geomicrobiology. Microbial effect on geological processes
- Water. Aquatic microbiology
- 105 General works
- 105.5 Freshwater
 - Cf. TD384 Water supply analysis
- Seawater. Marine microbiology
- 106 General works
- 106.5 Hydrothermal vents
- 107 Hot springs. Calderas
- Soil
 - Including soil fungi
 - Cf. QK604.2.M92 Mycorrhizal fungi
- 111 General works
- 113 Root nodules
 - Cf. S652 Soil inoculation
- Foods
 - Cf. TP371.2+ Preservation in food processing
 - Cf. TX599+ Food preservation in the home
- 115 General works
- 116 Eggs
- 117 Meat
- 118 Fish. Shellfish
- 119 Breads. Cereals
- 121 Dairy products
 - Cf. SF253 Milk analysis
- 122 Fruit. Vegetables (General)
- 123 Canned foods
- 129.A-Z Other food products, A-Z
- 129.B44 Beer
- 129.C6 Corn oil
- 129.F7 Fruit juice
- 129.P76 Processed foods
- 129.R44 Refrigerated foods
- 129.S8 Sugar
- 129.T65 Tomatoes
- 130 Space microbiology
- 131.A-Z Other environments, A-Z
- 131.G58 Glaciers
- Pathogenic fungi see QR245+
- Microbial degradation
- 135 General works
- 135.5.A-Z Special substances, A-Z
- 135.5.C65 Compost

- Microbial degradation
 Special substances, A-Z -- Continued
- 135.5.M37
 148 Metals
 Microbiological chemistry
 Cf. QK861+ Plant biochemistry
 Cf. QP501+ Animal biochemistry
 Cf. QR88.3 Bacterial biosynthesis
 Cf. QR467 Biochemistry of viruses
- Microorganisms of fermentation. Yeasts, etc.
 Including diseases of wine and beer
 Cf. TP371.44 Preserving food by fermentation
 Cf. TP568+ Brewing
- 151
 (155) General works
 Yeasts and yeastlike fungi in the body
 see QR171
- 160 Microorganisms of cellulose and other plant products
 Microorganisms in the animal body
 Cf. QR201.A+ Pathogenic microorganisms
 Cf. QR245+ Pathogenic fungi
 Cf. QR301+ Pathogenic fungi
 Cf. RM666.P835 Probiotics
- 171.A1 General works, treatises, and textbooks
 171.A2-Z By organ or system, etc., A-Z
 171.A43 Alimentary canal
 171.B5 Blood
 171.E9 Eye
 171.F4 Feces. Manure
 171.F45 Female generative organs
 171.G29 Gastrointestinal system
 171.G4 Generative organs
 Generative organs, Female see QR171.F45
 171.G47 Germplasm
 171.I6 Intestines
 171.L8 Lungs
 Manure see QR171.F4
 Mouth see QR47
 171.N3 Nasopharyngeal system
 171.R85 Rumen
 171.S5 Skin
 171.S8 Stomach
 Teeth see QR47
 171.U7 Urinary system
 175 Virulence. Pathogenic action in general
 Cf. QP631+ Toxins (Animal biochemistry)
 177 Drug resistance

Immunology

- Cf. QL362.85 Invertebrates
- Cf. QL638.97 Fishes
- Cf. QP252.5 Reproductive immunology
- Cf. QP356.47 Neuroimmunology
- Cf. RA638 Public health
- Cf. RC581+ Immunologic diseases
- Cf. RG557 Obstetrics
- Cf. RM270+ Immunotherapy
- Cf. RM370+ Immunopharmacology
- Cf. SF757.2+ Veterinary immunology
- 180 Periodicals, societies, serial publications
- 180.2 Collected works (nonserial)
- 180.3 Congresses
- 180.4 Dictionaries and encyclopedias
- Biography
 - 180.7 Collective
 - 180.72.A-Z Individual, A-Z
- 181 General works, treatises, and textbooks
- 181.5 Addresses, essays, lectures
- 181.7 Popular works
- 181.8 Juvenile works
- 182 Special aspects of the subject as a whole
- 182.2.A-Z Special topics, A-Z
 - 182.2.A54 Animal models
 - Including specific animal models
 - 182.2.C65 Computer simulation
 - 182.2.E94 Evolution
 - 182.2.I46 Immunoinformatics
 - 182.2.M36 Mathematical models
 - 182.2.N86 Nutritional aspects
 - Space flight see RC1151.I45
 - 182.2.S7 Statistical methods
- Study and teaching. Research
 - 182.5 General works
 - 182.55 Outlines, syllabi
 - 182.6 Problems, exercises, examinations
- Laboratory methods
 - For specific tests see QR187.A2+
- 183 General works
- 183.2 Tracers
- 183.5 Immunotechnology
- 183.6 Immunochemistry
 - Cf. QR187.I45 Immunocytochemistry
- 183.8 Immunotaxonomy
- Immunogenetics
 - 184 General works

Immunology

Immunogenetics -- Continued

- 184.2 Human immunogenetics
Histocompatibility. H-2 locus
- 184.3 General works
- 184.315 Major histocompatibility complex
- 184.32 HLA antigens
Minor histocompatibility antigens
- 184.34 General works
- 184.35 H-Y antigen
- 184.4 Ir genes. Ia antigens
- 184.5 Developmental immunology
- 184.6 Phylogeny of the immune system
- Types of immunity
- 185.2 Natural
Acquired
- 185.3 General works
- 185.33 Maternally acquired immunity
- 185.35 Immunologic memory
- 185.4 Humoral
- 185.5 Cellular
- 185.6 Molecular aspects. Molecular immunology
- Immune structures
- 185.7 General works
- 185.8.A-Z By type, A-Z
- 185.8.A58 Antibody-drug conjugates see RS201.A56
- 185.8.A59 Antibody-toxin conjugates
- 185.8.B15 Antigen presenting cells
- 185.8.B15 B cells
- 185.8.B54 Biological response modifiers
- 185.8.C45 Chemokines
- 185.8.C6 Complement
Cf. QR187.C6 Complement fixation
- 185.8.C95 Cytokines
- 185.8.D45 Dendritic cells
- 185.8.E58 Eosinophils
Cf. QP95.3 Physiology
- 185.8.F33 Fc receptors
- 185.8.G4 Germinal centers
- 185.8.G73 Granulocytes
Cf. QP95.4 Physiology
- 185.8.H93 Hybridomas
Cf. QH451 Cell fusion
- 185.8.I45 Immune complexes
- 185.8.I56 Interleukins
Including interleukin-1, interleukin-2, etc.
- 185.8.K54 Killer cells

Immunology

Immune structures

By type, A-Z -- Continued

- 185.8.L35 Langerhans cells
 185.8.L48 Leucocytes
 Cf. QP95+ Physiology
 185.8.L49 Leukolysins
 185.8.L9 Lymphocytes
 185.8.L93 Lymphokines
 185.8.M28 Macrophage migration inhibitory factor
 185.8.M3 Macrophages
 185.8.M35 Mast cells
 185.8.M36 Mathematical models
 185.8.N47 Neutrophils
 185.8.O7 Opsonin
 Cf. QR187.P4 Phagocytosis
 185.8.P45 Phagocytes
 Cf. QR187.P4 Phagocytosis
 185.8.P58 Platelets
 Cf. QP97+ Physiology
 185.8.S65 Spleen
 185.8.S96 Suppressor cells
 185.8.T2 T cells
 185.8.T24 Th cells
 Thrombocytes see QR185.8.P58
 185.8.T48 Thymus
 185.8.T67 Transfer factor
 Cf. RM282.T7 Therapeutic use
 185.8.T7 Trophoblast
 185.8.T84 Tumor necrosis factor
 185.9.A-Z By organ or system, etc., A-Z
 185.9.G37 Gastrointestinal system
 185.9.L58 Liver
 185.9.M83 Mucous membrane
 185.95 Immune recognition
 Immune response
 Class here works on the mechanism of immune response in
 humans or laboratory animals
 For works on the immunology of specific animals or groups of
 animals, other than laboratory animals, see the systematic
 divisions in QL. For works on the immune response to
 particular diseases or parasites, see the disease or parasite
 in R or SF
 186 General works
 186.3 Idiotypic networks
 Antigens
 186.5 General works

Immunology

Antigens -- Continued

- 186.6.A-Z By type, A-Z
- 186.6.B33 Bacterial antigens
- 186.6.C37 Blood group antigens see QP98
- 186.6.C42 Carbohydrates
- 186.6.C42 CD antigens
 - Including CD23 antigen, CD26 antigen, etc.
- 186.6.C44 Cell surface antigens
- 186.6.F85 Fungal antigens
- 186.6.G73 Granulocyte antigens
- 186.6.H3 H-Y antigen see QR184.35
- 186.6.H42 Haptens
- 186.6.H42 Heat shock proteins
- 186.6.H42 Histocompatibility antigens see QR184.3+
- 186.6.H42 HLA antigens see QR184.32
- 186.6.L94 Lysozyme
- 186.6.P38 Parasite antigens
- 186.6.P76 Proteins
- 186.6.S64 Spermatozoa
- 186.6.S94 Superantigens
- 186.6.S95 Synthetic antigens
- 186.6.T48 Thy-1 antigen
- 186.6.T57 Tissue-specific antigens
- 186.6.T6 Toxins
- 186.6.T65 Toxoids
- 186.6.V57 Tumor antigens see QR188.6
- 186.6.V57 Viral antigens
- 186.7 Antibodies. Immunoglobulins
 - General works
 - By type, A-Z
 - 186.8.A2 IgA. Immunoglobulin A
 - 186.8.D2 IgD. Immunoglobulin D
 - 186.8.E2 IgE. Immunoglobulin E
 - 186.8.G2 IgG. Immunoglobulin G
 - 186.8.M2 IgM. Immunoglobulin M
 - Autoantibodies
 - 186.82 General works
 - By type, A-Z
 - 186.83.P48 Phospholipid antibodies
 - 186.83.R48 Rheumatoid factor
 - 186.85 Monoclonal antibodies
 - Cf. RM282.M65 Therapeutic use
 - 186.87 Recombinant antibodies
 - 186.9 Specificity
 - Antigen-antibody reactions
 - Class tests with type of reaction

Immunology

Antigen-antibody reactions -- Continued

- 187.A1 General works, treatises, and textbooks
- 187.A2-Z By type, A-Z
- 187.A3 Agglutination
- 187.A8 Autolysis
- 187.B3 Bacteriolysis
- 187.C48 Chemiluminescence immunoassay
- 187.C6 Complement fixation
- 187.C65 Conglutination
- 187.D3 Danysz phenomenon
- 187.F58 Fluorescent antigen technique
- 187.H38 Hemagglutination tests
- 187.H4 Hemolysis
- 187.H45 Hemolytic plaque technique
- 187.H57 Histocompatibility testing
- 187.I44 Immunoabsorption
- 187.I45 Immunocytochemistry
- 187.I46 Immunodiffusion
- 187.I47 Immunoelectrophoresis
- 187.I48 Immunofluorescence
- 187.I482 Immunogold labeling
- 187.I486 Immunophenotyping
- 187.L47 Leucocyte adherence inhibition test
- 187.P4 Phagocytosis
- 187.P7 Precipitation
- 187.S4 Sedimentation
- 187.3 Adjuvants
- 187.4 Chemotaxis
- 187.5 Interferons
- 188 Hypersensitivity. Allergy
 - Cf. RC583+ Diseases
- 188.3 Autoimmunity
 - For autoantibodies see QR186.82+
 - Cf. RC600 Autoimmune diseases
- 188.35 Immunodeficiency
 - Cf. RC606+ Medicine
 - Cf. RJ387.D42 Pediatrics
- 188.4 Tolerance
- Immunosuppression
- 188.45 General works
- 188.46 Virus-induced immunosuppression
- 188.5 Radiation immunology
- 188.6 Tumor immunology
 - Cf. RC268.3 Immunological aspects

Immunology -- Continued

- 188.8 Transplantation immunology
 Cf. QP89 Physiology of the tissues
 Cf. RD120.6+ Surgery
- Vaccines
 Cf. RA638 Vaccination in public health
 Cf. RM281 Vaccinotherapy
- 189 General works, treatises, and textbooks
- 189.2 Synthetic vaccines
- 189.5.A-Z By disease or type, A-Z
- 189.5.A33 AIDS (Disease)
- 189.5.A56 Anti-idiotypic
- 189.5.B33 Bacterial diseases
- 189.5.C45 BGC vaccine see QR189.5.T72
- 189.5.D53 Chickenpox
- 189.5.E5 DNA vaccines
- 189.5.E5 Encephalitis
- 189.5.E53 Enterobacterial vaccines
- 189.5.H46 Hepatitis
- 189.5.H48 Herpesvirus disease
- 189.5.I5 Influenza
- 189.5.M34 Malaria
- 189.5.M4 Measles
- 189.5.N48 Newcastle disease
- 189.5.P36 Papillomavirus
- 189.5.P46 Pertussis
- 189.5.P54 Pleuropneumonia
- 189.5.P58 Pneumococcal infections
- 189.5.P6 Poliomyelitis
- 189.5.P76 Protozoan diseases
- 189.5.R3 Rabies
- 189.5.R8 Rubella
- 189.5.S48 Sexually transmitted diseases
- 189.5.S6 Smallpox
- Tuberculosis
- 189.5.T7 General works
- 189.5.T72 BCG vaccine
- 189.5.T9 Typhoid
- 189.5.V5 Virus diseases
- 201.A-Z Pathogenic microorganisms. By disease, A-Z
- 201.A16 Acinetobacter infections
- 201.A2 Actinomycosis
- 201.A27 Adenovirus diseases
- 201.A3 Adiaspiromycosis
- 201.A35 African swine fever
- 201.A37 AIDS (Disease). HIV infections
- 201.A55 Amebiasis

Pathogenic microorganisms. By disease, A-Z -- Continued

| | |
|-----------|--|
| 201.A57 | Anaerobic infections |
| 201.A6 | Anthrax |
| 201.A72 | Arbovirus infections |
| 201.A74 | Arenavirus diseases |
| 201.A85 | Aspergillosis |
| 201.B318 | Babesiosis |
| 201.B32 | Bacteremia |
| 201.B34 | Bacterial diseases |
| 201.B37 | Bartonella infections |
| 201.B55 | Blastomycosis |
| 201.B66 | Borna disease |
| | Borreliosis see QR201.R45 |
| 201.B7 | Botulism |
| 201.B74 | Bovine spongiform encephalopathy |
| 201.B8 | Brucellosis. Undulant fever |
| 201.C25 | Campylobacter infections |
| (201.C26) | Campylobacter pylori infections
see QR201.H44 |
| | Cancer see QR201.T84 |
| 201.C27 | Candidiasis |
| 201.C29 | Chagas' disease |
| 201.C47 | Chlamydia infections |
| 201.C5 | Cholera |
| 201.C54 | Clostridium diseases |
| 201.C58 | Coccidioidomycosis |
| 201.C59 | Coccidiosis |
| 201.C6 | Conjunctivitis |
| 201.C65 | Coxsackievirus infections |
| 201.C9 | Cystitis |
| 201.C94 | Cytomegalovirus infections |
| 201.D4 | Diarrhea |
| | Diarrhea, Viral see QR201.V53 |
| 201.D5 | Diphtheria |
| 201.D6 | Diphtheroid organisms |
| 201.D9 | Dysentery. Bacillary dysentery |
| 201.E16 | Ebola virus disease |
| 201.E2 | Edema, Malignant |
| 201.E45 | Erlchiosis |
| 201.E6 | Endocarditis, Bacterial |
| 201.E64 | Enterococcal infections |
| 201.E75 | Epstein-Barr virus diseases |
| 201.E82 | Escherichia coli infections |
| 201.F6 | Food poisoning
Cf. QR201.B7 Botulism |
| 201.F62 | Foodborne diseases |
| 201.F63 | Foot-and-mouth disease |

Pathogenic microorganisms. By disease, A-Z -- Continued

| | |
|----------|------------------------------------|
| 201.G45 | Giardiasis |
| 201.G5 | Glanders |
| 201.G7 | Gonorrhea |
| 201.G76 | Gram-positive bacterial infections |
| 201.H22 | Haemophilus infections |
| 201.H24 | Hantavirus infections |
| 201.H44 | Helicobacter pylori infections |
| 201.H46 | Hepatitis, Viral |
| 201.H48 | Herpesvirus infections |
| | HIV infections see QR201.A37 |
| 201.H7 | Hog cholera |
| 201.H86 | HTLV infections |
| 201.I6 | Influenza |
| | Jaundice see QR201.L6 |
| 201.L44 | Legionnaires' disease |
| 201.L5 | Leprosy |
| 201.L6 | Leptospirosis. Jaundice |
| 201.L64 | Leukemia |
| 201.L7 | Listeriosis |
| 201.L88 | Lyme disease |
| 201.L9 | Lymphocytic choriomeningitis |
| 201.M3 | Malaria |
| | Malignant edema see QR201.E2 |
| 201.M4 | Mastitis |
| 201.M43 | Measles |
| 201.M6 | Meningitis |
| 201.M73 | Microsporidiosis |
| 201.M96 | Mycobacterial diseases |
| 201.M97 | Mycoplasma diseases |
| 201.M98 | Mycotoxicoses |
| 201.N4 | Necrosis |
| 201.N45 | Neisseria infections |
| 201.N5 | Newcastle disease |
| 201.O6 | Oidiomycosis |
| 201.O8 | Osteomyelitis |
| 201.P26 | Papillomavirus diseases |
| 201.P27 | Parasitic diseases |
| 201.P28 | Paratuberculosis |
| 201.P3 | Paratyphoid fever |
| 201.P33 | Parvovirus infections |
| 201.P4 | Peritonitis |
| 201.P45 | Picornavirus infections |
| 201.P5 | Plague |
| 201.P7 | Pneumococcal pneumonia |
| 201.P73 | Poliomyelitis |
| 201.P732 | Polyomavirus infections |

Pathogenic microorganisms. By disease, A-Z -- Continued

| | |
|----------|--|
| 201.P733 | Porphyromonas gingivalis infections |
| 201.P737 | Prion diseases |
| 201.P74 | Pseudomonas aeruginosa infections |
| 201.P75 | Pseudotuberculosis |
| 201.P8 | Psittacosis |
| 201.Q2 | Q fever |
| 201.R3 | Rabies |
| 201.R45 | Relapsing fever. Borreliosis |
| 201.R47 | Retrovirus infections |
| 201.R5 | Rheumatic fever |
| 201.R53 | Rheumatism |
| 201.R59 | Rickettsial diseases |
| | Rocky Mountain spotted fever see QR201.S65 |
| 201.R67 | Rotavirus infections |
| 201.S25 | Salmonella infections |
| 201.S27 | Sarcocystosis |
| 201.S28 | SARS (Disease) |
| 201.S3 | Scarlatina |
| 201.S35 | Schistosomiasis |
| 201.S47 | Serratia diseases |
| 201.S55 | Shigellosis |
| 201.S6 | Smallpox |
| 201.S65 | Spotted fever, Rocky Mountain |
| 201.S68 | Staphylococcal infections |
| 201.S7 | Streptococcus infections |
| 201.S9 | Syphilis |
| 201.T3 | Tetanus |
| 201.T5 | Torulosis |
| 201.T53 | Toxoplasmosis |
| 201.T54 | Trachoma |
| 201.T55 | Trichomoniasis |
| 201.T6 | Tuberculosis |
| 201.T8 | Tularemia |
| 201.T84 | Tumors. Cancer |
| 201.T9 | Typhoid fever |
| 201.T95 | Typhus fever |
| | Undulant fever see QR201.B8 |
| 201.V53 | Viral diarrhea |
| | Viral hepatitis see QR201.H46 |
| 201.V55 | Virus diseases |
| 201.W6 | Whooping cough |
| 201.Y4 | Yellow fever |
| 201.Y45 | Yersinia infections |

- Medical mycology. Pathogenic fungi
 Class here general works only
 For particular fungi see QK621+
 Cf. QK604.2.P45 Phytopathogenic fungi
 Cf. RC117.A+ Mycotic diseases
 Cf. SB733 Fungus diseases of plants
 Cf. SF780.7 Veterinary mycology
- 245 General works
 248 Diagnostic mycology
- Medical parasitology
 Class here general works only
 For particular protozoa see QL368.A115+
 For pathogenic microorganisms see QR201.A+
 Cf. QR201.P27 Parasitic diseases
 Cf. RC118+ Spirochetal and protozoan diseases
 Cf. SF781+ Veterinary medicine
- 251 General works
 255 Diagnostic parasitology
- Microorganisms of animals
 Cf. QR171.A1+ Microorganisms in the animal body
 Cf. SF951+ Diseases of special classes of animals
- 301 General works
 Vertebrates
 For domestic animals see SF780.2
- 302 General works
 Humans see QR46
- 303 Mammals
 311 Birds
 314 Amphibians
 315 Reptiles
 321 Fishes
 Cf. SF458.5 Aquarium fish diseases
 Cf. SH171+ Diseases and pests of fish
- Invertebrates
 325 General works
 327 Insects
 330 Poikilotherms
- Microorganisms of microorganisms
- 340 General works
 Bacteriophages
 342 General works
 342.2.A-Z Individual phages or groups of phages, A-Z
 342.2.F37 fd
 342.2.I43 IKe
 342.2.M82 Mu
 342.2.T14 T4
 343 Fungal viruses

- 351 Microorganisms of plants
Cf. SB621+ Microbial diseases of plants
- Mycoplasmas
- 352 General works
- 352.5.A-Z Systematic divisions. By family, A-Z
- 352.5.A3 Acholeplasmataceae
- 352.5.M9 Mycoplasmataceae
- Rickettsias
- 353 General works
- 353.5.A-Z Systematic divisions. By family, A-Z
- 353.5.A5 Anaplasmataceae
- 353.5.B3 Bartonellaceae
- (353.5.C4) Chlamydiaceae
see QR82.C35
- 353.5.R5 Rickettsiaceae
- Virology
- Cf. QR201.V55 Virus diseases
- Cf. SF780.4 Veterinary virology
- Cf. TD427.V55 Viral pollution of water
- 355 Periodicals, societies, congresses, serial publications
- 357 Collected works (nonserial)
- 358 Dictionaries and encyclopedias
- History
- 359 General works
- 359.5.A-Z By region or country, A-Z
- Biography
- 359.7 Collective
- 359.72.A-Z Individual, A-Z
- 360 General works, treatises, and textbooks
- 363 Pictorial works and atlases
- 364 Popular works
- 365 Juvenile works
- 368 Addresses, essays, lectures
- 370 Special aspects of the subject as a whole
- 372.A-Z Special topics, A-Z
- Bacteriophages see QR342+
- 372.M32 Macromolecules
- 372.O58 Oncogenic DNA viruses
- 372.O6 Oncogenic viruses
Cf. QR201.T84 Tumors
- Study and teaching. Research
- 375 General works
- 376 Laboratory manuals
- Laboratories
- 380.A1 General works
- 380.A3-Z By region or country, A-Z
Subarrange each country by Table Q6

Virology

- Laboratories -- Continued
- 383 Culture collections
- Technique
- 385 General works
- 385.5 Isolation
- 386 Culture technique
- 387 Diagnostic technique
- 387.5 Electron microscopy. Ultrastructural studies
- 388 Counting and measuring
- Statistical methods see QR72
- 388.5 Aquatic virology
- 389 Molecular virology
- 392 Variation
 - Cf. QH434 Microbial genetics
- 393 Terminology, notation, abbreviations
- 394 Classification. Nomenclature
- Systematic divisions
 - For classification for viruses of specific diseases see QR201.A+
- 394.5 DNA viruses
 - Cf. QR372.O58 Oncogenic DNA viruses
- 395 RNA viruses
- 396 Adenoviruses
- 398 Arboviruses
- 398.5 Baculoviruses
- 398.6 Bromoviridae
- 398.7 Bunyaviruses
- 398.8 Caliciviruses
- 399 Coronaviruses
- Herpesviruses
 - General works
 - Special, A-Z
 - 400.2.A-Z Epstein-Barr virus
 - 400.2.E68 Herpes simplex virus
 - 400.2.H47 Varicella-zoster virus
 - 400.2.V37
- 401 Iridoviruses
- 401.5 Luteoviridae. Luteoviruses
- 402 Mosaic viruses
- 403 Nidoviruses
 - For coronaviruses see QR399
- 404 Orthomyxoviruses. Myxoviruses
- Paramyxoviruses
 - General works
 - Special, A-Z
 - 404.2.A-Z Nipah virus
 - 404.2.N55 Sendai virus
 - 404.2.S45

Virology

Systematic divisions -- Continued

Orthopoxviruses

405

General works

405.2.A-Z

Special, A-Z

405.2.B83

Buffalopox virus

Papillomaviruses. Polyomaviruses

406

General works

406.2.A-Z

Special, A-Z

406.2.S56

Simian virus 40. SV40

SV40 see QR406.2.S56

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| .A3 | Ag Silver (Argentum) |
| | Alabamine see Q1 .A8 |
| .A4 | Al Aluminum |
| .A5 | Am Americium |
| | Antimony see Q1 .S3 |
| | Argentum see Q1 .A3 |
| .A6 | Ar Argon |
| .A7 | As Arsenic |
| .A8 | At Astatine (Alabamine) |
| .A9 | Au Gold (Aurum) |
| .B1 | B Boron |
| .B2 | Ba Barium |
| .B4 | Be Beryllium (Glucinum) |
| .B46 | Bh Bohrium |
| .B5 | Bi Bismuth |
| .B55 | Bk Berkelium |
| .B7 | Br Bromine |
| .C1 | C Carbon |
| .C2 | Ca Calcium |
| .C3 | Cd Cadmium |
| | Cassiopeium see Q1 .L8 |
| | Celtium see Q1 .H5 |
| .C4 | Ce Cerium |
| .C45 | Cf Californium |
| .C5 | Cl Chlorine |
| .C55 | Cm Curium |
| .C57 | Cn Copernicium |
| .C6 | Co Cobalt |
| .C7 | Cr Chromium |
| .C8 | Cs Cesium |
| | Columbium see Q1 .N3 |
| .C9 | Cu Copper (Cuprum) |
| .D2 | Db Dubnium |
| | Didymium see Q1 .P7 |
| .D8 | Dy Dysprosium |
| .E6 | Er Erbium |
| .E7 | Es Einsteinium |
| .E8 | Eu Europium |
| .F1 | F Fluorine |
| .F4 | Fe Iron (Ferrum) |
| .F5 | Fm Fermium |
| | Ferrum see Q1 .F4 |
| .F7 | Fr Francium |
| .G2 | Ga Gallium |
| .G4 | Gd Gadolinium |
| .G5 | Ge Germanium |

| | |
|------|---------------------------|
| | Glucinum see Q1 .B4 |
| | Gold see Q1 .A9 |
| .H1 | H Hydrogen |
| .H4 | He Helium |
| .H5 | Hf Hafnium (Celtium) |
| .H6 | Hg Mercury (Hydrargyrum) |
| .H7 | Ho Holmium |
| .H8 | Hs Hassium |
| | Hydrargyrum see Q1 .H6 |
| .I1 | I Iodine |
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| .I5 | In Indium |
| .I7 | Ir Iridium |
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| .K6 | Kr Krypton |
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| .L5 | Li Lithium |
| .L8 | Lu Lutetium (Cassiopeium) |
| .L9 | Lw Lawrencium |
| .M3 | Md Mendeleevium |
| .M4 | Mg Magnesium |
| .M6 | Mn Manganese |
| | Mercury see Q1 .H6 |
| .M7 | Mo Molybdenum |
| | Natrium see Q1 .N2 |
| .N1 | N Nitrogen |
| .N2 | Na Sodium (Natrium) |
| .N3 | Nb Niobium (Columbium) |
| .N4 | Nd Neodymium |
| .N5 | Ne Neon |
| .N6 | Ni Nickel |
| | Niton see Q1 .R6 |
| .N65 | No Nobelium |
| .N7 | Np Neptunium |
| .O1 | O Oxygen |
| .O7 | Os Osmium |
| .P1 | P Phosphorus |
| .P2 | Pa Protactinium |
| .P3 | Pb Lead (Plumbum) |
| .P4 | Pd Palladium |
| | Plumbum see Q1 .P3 |
| .P5 | Pm Promethium (Illinium) |
| .P6 | Po Polonium |
| | Potassium see Q1 .K1 |
| .P7 | Pr Praseodymium. Didymium |

| | |
|------|-----------------------|
| .P8 | Pt Platinum |
| .P9 | Pu Plutonium |
| .R1 | Ra Radium |
| .R3 | Rb Rubidium |
| .R4 | Re Rhenium |
| .R45 | Rf Rutherfordium |
| .R47 | Rg Roentgenium |
| .R5 | Rh Rhodium |
| .R6 | Rn Radon (Niton) |
| .R9 | Ru Ruthenium |
| .S1 | S Sulfur |
| .S3 | Sb Antimony (Stibium) |
| .S4 | Sc Scandium |
| .S5 | Se Selenium |
| .S55 | Sg Seaborgium |
| .S6 | Si Silicon |
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| .S65 | Sm Samarium |
| .S7 | Sn Tin (Stannum) |
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| | Stibium see Q1 .S3 |
| .S8 | Sr Strontium |
| .T2 | Ta Tantalum |
| .T3 | Tb Terbium |
| .T35 | Tc Technetium |
| .T4 | Te Tellurium |
| .T5 | Th Thorium |
| | Tin see Q1 .S7 |
| .T6 | Ti Titanium |
| .T7 | Tl Thallium |
| .T8 | Tm Thulium |
| | Tungsten see Q1 .W1 |
| .U7 | U Uranium |
| .V2 | V Vanadium |
| .W1 | W Tungsten (Wolfram) |
| .X4 | Xe Xenon |
| .Y1 | Y Yttrium |
| .Y3 | Yb Ytterbium |
| .Z6 | Zn Zinc |
| .Z7 | Zr Zirconium |

Q2

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| .x5 | Capture. Decay. Lifetime |
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