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
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
Societies
Asia -- Continued
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
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
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.E77
Eswatini
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
Societies
   Africa
   Other regions or countries, A-Z -- Continued

(91.S95)
   Swaziland
   see Q91.E77

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

125
   Modern
   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
Women in science. Women scientists
   For biography see Q141+
   Cf. HQ1397 Women in science and the arts

Biography
141
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

Directories
Science as a profession. Vocational guidance
   Cf. Q130 Women in science
147
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
   1801-1969
160 1970-
160.2 Elementary
   1801-1969
161 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
Special topics, A-Z -- Continued

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
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
175.32.A-Z Special topics, A-Z
175.32.A24 Abduction (Logic)
175.32.A47 Aesthetics
175.32.C38 Causation
175.32.C65 Complexity (Philosophy)
   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)
   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
   Laws of nature see Q175.32.P39
   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
Philosophy. Methodology
Special topics, A-Z -- Continued

175.32.P39 Physical laws of science. Laws of nature
175.32.R42 Realism
175.32.R45 Reasoning. Logic
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
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
Research
Special topics, A-Z -- Continued
180.55.C55  Classification
180.55.C6  Cost
180.55.D57  Discoveries
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.G77  Group work
180.55.I45  Information technology
180.55.I48  Interdisciplinary research
  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
180.55.V6  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
Study and teaching -- Continued
182.6  Competency-based education
182.7  Electronic information resources
        Including computer network resources, the Internet, digital libraries, etc.
182.8  Social aspects
        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
Communication in science -- Continued

Science news. Science and the public
225
General works
225.2.A-Z
By region or country, 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
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
    General works
    Reinforcement learning
    Computational learning theory
    Deep learning
    Supervised learning
    Back propagation
    Support vector machines
    Transfer learning
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)
334.7
Philosophy
  Including moral and ethical aspects
335
General works, treatises, and textbooks
335.4
Juvenile works
335.5
Addresses, essays, lectures
335.7
Study and teaching. Research
336
Data processing
Cybernetics
   Self-organizing systems. Conscious automata
   Artificial intelligence -- Continued
   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
343
   Virtual humans
   For works on virtual humans applied to a specific field, see the field
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
2. Collected works (nonserial)
3. Dictionaries and encyclopedias
4. 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
9.25. 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

9.67. Completeness

9.7. Model theory

9.8. Metamathematics

9.9. Matrix logic

9.9. 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
    Civilization and mathematics see CB455
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
    United States
13 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
    Art
    Blocks (Toys)
    Bulletin boards
    Charts, diagrams, etc.
    Cuisenaire rods
    Literature
    Manipulatives
    Motion pictures
    Music
    Overhead projectors
    Paper work
        Including folding, cutting, etc.
    Picture books
    Television
20 A-Z Other methods, A-Z
    Authorship see QA20.M38
    Calculators
    Computer-assisted instruction
        Including computer-based experiments
    Electronic spreadsheets
    Forums (Discussion and debate)
    Games
    Gesture
    Group guidance
    Hieroglyphics
    Individualized instruction
    Intervention, Response to see QA20.R47
    Magic tricks
    Mathematical writing. Authorship
Study and teaching. Research
Special teaching methods and aids
Other methods, A-Z -- Continued
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.W43 Web-based instruction
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
   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 mathematics 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
Instruments and machines
Calculating machines
Electronic computers. Computer science
Study and teaching. Research -- Continued

76.27
General works
76.28
Problems, exercises, examinations
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
76.629
General works
76.529.A-Z
Special topics, A-Z
76.529.A34
Affinity scheduling
76.529.P37
Parallel scheduling
76.53
Time-sharing data processing
Real-time data processing
76.64
General works
76.545
Transaction systems
76.546.A-Z
Special systems, A-Z
76.546.E84
Ethereum

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
76.57.S68
SOURCE (Videotex system)
76.57.T44
TELETEL (Videotex system)
76.57.U43
UMI Online (Videotex system)
76.575
Multimedia systems
Cf. QA76.76.159 Interactive multimedia
76.58
Parallel processing. Parallel computers
76.583
Edge computing
76.585
Cloud computing
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers -- Continued

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
76.6115
Juvenile 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
76.637
Modular programming
76.64
Object-oriented programming and programs
    Including OPEN method
76.642
Parallel programming
76.65
Visual programming
76.66
Systems programming

Programing 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.

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
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

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.G73  GraphQL
76.73.H37  Haskell
76.73.H57  Hopscotch
76.73.H6  HP-GL/2
76.73.H96  HyperTalk
76.73.I22  INFORMIX-4GL
76.73.J2  J#
76.73.J38  Java
76.73.J39  JavaScript
76.73.J63  Job Control Language
76.73.J7  JR
76.73.J85  Julia
76.73.K63  Kodu
76.73.K67  KornShell
76.73.K68  Kotlin
76.73.L23  LISP
76.73.L62  LogiQL
76.73.L63  LOGO
76.73.L66  LotusScript
76.73.L82  Lua
76.73.M15  M
76.73.M29  Mathematica
76.73.M35  Maude
76.73.M39  MDX
76.73.M53  Microsoft Visual Basic
 Including Microsoft Visual Basic for applications
76.73.M6  ML
 MySQL see QA76.73.S67
76.73.N39  NCL
76.73.O115  Objective-C
76.73.O213  OpenCL
76.73.P224  PHP
76.73.P25  PL/1
Instruments and machines
  Calculating machines
    Electronic computers. Computer science
      Digital computers
        Programming languages
          Individual languages, A-Z -- Continued
  76.73.P32 packetC
  76.73.P67 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
PowerShell see QA76.73.W56
  76.73.P75 Processing
  76.73.P76 Prolog
  76.73.P79 Pseudocode
  76.73.P98 Python
  76.73.R25 RPG
  76.73.R3 R (Computer program language)
  76.73.R33 Racket
  76.73.R83 Ruby
  76.73.R87 Rust
  76.73.S15 S
  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
    Visual Basic see QA76.73.M53
  76.73.W56 Windows PowerShell
  76.73.W65 Wolfram language
  76.73.X16 X86 assembly language
  76.73.X57 XPath
  76.73.X575 XQuery
  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
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Special topics, A-Z -- Continued

76.76.A54
AngularJS
76.76.A63
Application program interfaces
76.76.A65
Application software
  Including composite applications
(76.76.A87)
Assemblers
Assembly languages. Assemblers see QA76.73.A8
76.76.A98
Automatic differentiations
76.76.C47
Certification of software
76.76.C52
Chatbots
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
Computer games see QA76.76.V54
76.76.C68
Computer viruses
76.76.C69
Configuration management
Container technologies see QA76.76.S58
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
76.76.I59
Interactive media. Hypermedia
  Cf. QA76.575 Multimedia systems
Measurement, Software see QA76.76.S65
76.76.M52
Microsoft .NET Framework
76.76.M54
Middleware
  Including object monitors
76.76.N38
NativeScript
 Instruments and machines
 Calculating machines
 Electronic computers. Computer science
 Computer software
 Special topics, A-Z -- Continued
 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.P77
 Prototyping

 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.S58
 Software container technologies

 76.76.S62
 Software ecosystems

 76.76.S63
 Software failures see QA76.76.F34

 76.76.S64
 Software frameworks
 For special frameworks, see the framework, e.g., Microsoft .NET Framework
 QA76.76.M52

 76.76.S65
 Software maintenance
 Including Year 2000 date conversion

 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

 76.76.V47
 Verification and validation of software

 76.76.V54
 Video games
 Class here works on programming video games
 For general works on video games as well as works on specific video games and actual software see GV1469.3+

 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

 76.77
 Operating systems

 General works
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Operating systems -- Continued

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
76.8.A54
AN/FSQ-7
76.8.B35
BBC Microcomputer
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
MacBook see QA76.8.M3
76.8.M3
Macintosh
Including MacBook
76.8.M47
Micro:bit
76.8.P53
PLATO
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
Instruments and machines
  Calculating machines
    Electronic computers. Computer science -- Continued
    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
      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
    76.9.A94  Augmented reality. Mixed reality. Virtual reality
      Class here works on entirely digital environments that are experienced by end users, works on environments that layer digital content on top of physical environments, and works on combined physical and digital content that enables interaction with real-world and digital objects
      For works on computer simulation of another computer system see QA76.9.V5
    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
      Biologically-inspired computing see QA76.9.N37
    76.9.B56  Blockchains
    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
Instruments and machines
Calculating machines
  Electronic computers. Computer science
  Other topics, A-Z -- Continued
  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)
  76.9.C92  Cyberinfrastructure
  Data analysis, Quantitative see QA76.9.Q36
  76.9.D26  Database design
  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.D335  Data encryption
  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 and multimedia data mining
  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
Instruments and machines
Calculating machings
Electronic computers. Computer science
Other topics, A-Z
Ethical aspects see QA76.9.M65
Evaluation of computer performance
Evaluation of data processing activities
Event logging see QA76.9.D3385
Expert systems see QA76.76.E95
Failures of computer systems
Cf. QA76.76.F34 Software failures
Computers and family
Fault-tolerant computing
File conversion
Including individual file conversion software, e.g. Adobe Acrobat
File organization
File processing
Formal methods
Garbage collection
Government policy
Granular computing see QA76.9.S63
Graphical user interfaces see QA76.9.U83
Grids, Computational see QA76.9.C58
Hard disk management
Hashing
Human computation. Crowdsourcing
Cf. Q337+ Distributed artificial intelligence
Human-computer interaction
Information visualization
Input design
Interactive computer systems
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+
Lattice theory
Logic, Computer
Management
Mathematics, Computer
Memory management
Mixed reality see QA76.9.A94
Moral and ethical aspects
Multilingual computing
Natural computation
Including biologically-inspired computing
Natural language processing
Cf. P98+ Linguistics
Netcentric computing
Non-relational databases see QA76.9.D32
Object-oriented methods
Cf. QA76.64 Object-oriented programming
OLAP technology see QA76.9.D343
Computers and older people
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
76.9.S57 Sentiment analysis
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
Class here works on computer simulation of another computer system
For works on entirely digital environments that are experienced by end users, works on
environments that layer digital content on top of physical environments, and works on
combined physical and digital content that enables interaction with real-world and
digital objects see QA76.9.A94
Virtual reality see QA76.9.A94
Visualization, Information see QA76.9.I52
76.9.V65 Voice computing
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
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
141.8.V54 Vigesimal system
Elementary mathematics. Arithmetic -- Continued

(145)

Algebra and arithmetic

see QA101+

Algebra

150

Periodicals, societies, congresses, serial publications

151

History

Textbooks

Elementary

Through 1970

1971-2000

2001-

Advanced

154

Through 1970

1971-2000

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.

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
Algebra
Combinatorics. Combinatorial analysis
Graph theory -- Continued
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
166.249
Tutte polynomial
Design and configurations
166.25
General works
166.4
Hadamard matrices
166.6
Matroids. Greedoids
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
Algebra
  Group theory
    Special topics, A-Z -- Continued
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
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
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
  Approximation theory
    Cf. QA297+ Numerical analysis
Algebra
  Approximation theory -- Continued
  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+

Universal algebra
  Cf. QA184+ Linear and multilinear algebra

Commutative rings and algebras
  251 General works
  251.35 Group rings
  251.38 Local rings
  251.4 Noncommutative rings and algebras
  251.5 Associative rings and algebras

Nonassociative rings and algebras
  252 General works
  252.3 Lie algebras. Lie superalgebras
    Cf. QA387 Lie groups
  252.5 Jordan algebras

Complex numbers
  255 Matrices
    see QA188+
Algebra -- Continued

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
  Including the mathematics of cryptography

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
  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
Probabilities -- Continued
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
      General works
      Stochastic integrals
      Stochastic inequalities
      Stochastic sequences
      Stochastic differential equations
      Stochastic partial differential equations
      Stochastic integral equations
   Random operators
   White noise theory
   Stationary processes
   Gaussian free field
   Gaussian processes
   Point processes
   Random fields
   Random measures
   Martingales. Semimartingales
   Learning models
   Markov processes. Markov chains
      General works
      Random walks
      Diffusion processes. Brownian motion processes
         Cf. QC183 Constitution and properties of matter and anti-matter
      Jump processes
      Branching processes
      Queuing theory
      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
276.16 Addresses, essays, lectures
276.17 Statistics as a profession. Vocational guidance
   Study and teaching. Research
276.18 General works
Mathematical statistics
  Study and teaching. Research -- Continued
  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
  276.4  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
  276.45  Special programs or languages, A-Z
    276.45.A-Z  General works
    276.45.J56  JMP (Computer file)
    276.45.M38  Mata
    276.45.M53  Microsoft Excel
    276.45.M56  Minitab
    276.45.R3  R (Computer program language)
    276.45.S27  SAS (Computer program language)
    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
  278  Multivariate analysis
  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
  278.55  Cluster analysis
  278.6  Latent structure analysis
  278.65  Discriminant analysis
  278.7  Order statistics
  278.75  Ranking and selection
  278.8  Nonparametric methods
  278.9  Analysis of variance and covariance. Analysis of means. Experimental design
  279  General works
  279.2  Prediction analysis
  279.4  Decision theory
  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. QA297+ Numerical analysis
292 Sequences
   Cf. QA246.5 Sequences of integers
295 Series
   Including infinite products and other infinite processes
297 Numerical analysis
   Cf. QA221+ Approximation theory
297.3 General works, treatises, and textbooks
297.4 Problems, exercises, etc.
297.5 Discrete mathematics
   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
299.3 General works
299.4.A-Z Special formulas, A-Z
299.4.C83 Cubature formulas
299.4.G3 Gaussian quadrature formulas
300 Analysis
   Including calculus, functional analysis, functions, differential equations
300.5 Periodicals, societies, congresses, serial publications
300.8 General works
300.82 Nonstandard analysis
303 General works, treatises, and textbooks
303.2 Through 2000
303.2.1 Calculus
   Cf. QA431 Calculus of differences
   General works, treatises, and textbooks
303.3 Study and teaching. Research
303.5.A-Z Special topics, A-Z
303.5.C65 Computer-assisted instruction
303.5.D37 Data processing
   Differential calculus
### Analysis

#### Calculus

- **Differential calculus -- Continued**
  - General works
- **Problems, exercises, examinations**
- **Miscellaneous special topics**

#### Integral calculus

- **General works**
- **Problems, exercises, examinations**
- **Tables of integrals**
- **Miscellaneous special topics**
  - Measure and integration
    - Including Lebesgue integrals
  - **General works**

#### Measure and integration

- **General works**
- **Fuzzy measure theory**
- **Ergodic theory**
  - Cf. QA329.2 Linear operators
  - Cf. QA611.5 Topology

#### Fractional calculus

- **General works**
- **Miscellaneous special topics**

#### Functional analysis

- **Periodicals, societies, congresses, serial publications**
- **General works**
- **Addresses, essays, lectures**
- **Nonlinear functional analysis**
- **Topological linear spaces**
  - Normed linear spaces. Banach spaces
  - Inner product spaces. Hilbert spaces
  - Indefinite inner product spaces
- **Function spaces**
- **Theory of distributions**
- **Measures, integration, derivatives**
- **Topological algebras. Banach algebras**

#### Operator theory

- **General works**
- **Linear operators**
  - Differential operators
  - Partial differential operators
  - Narrow operators
  - Integral operators
  - Pseudodifferential operators
  - Nonlinear operators
  - **General works**
- **Fixed point theory**
  - Cf. QA612.24 Fixed points and coincidences

#### Theory of functions

- **General works, treatises, and advanced textbooks**
- **Elementary textbooks**
- **Functions of real variables**
- **Functions of complex variables**
  - Including multiform, uniform functions
Analysis
Theory of functions
Riemann surfaces -- Continued
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
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
Analysis
Continuous groups (of transformations). Infinitesimal transformations -- Continued

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

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

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
Geometry -- Continued

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
451 Euclid's Elements for use in schools
   For commentaries, Greek texts, and translations see QA31
445 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)

Descriptive geometry
497
   Cf. T351+ Mechanical drawing
501 General works, treatises, and textbooks
501.5 Problems, exercises, examinations
   Parallel projection
Geometry
  Descriptive geometry
    Parallel projection -- Continued
      General works
      Orthogonal projection on two planes
        General works
        Isometric projection
        Oblique projection
        Central projection
      General works
      Perspective
        Class here geometrical works only
        Cf. NA2710 Architecture
        Cf. NC748+ Drawing
        Cf. T369 Mechanical drawing
      Shades and shadows
        Class here geometrical works only
        Cf. NC755 Drawing
    Spherical projection
      Cf. GA110+ Map projection
    Miscellaneous special topics
    Geometry and trigonometry (combined)
    Trigonometry
      General works, treatises, and textbooks
      Plane
      Spherical
      Problems, exercises, examinations
      Miscellaneous special topics
    Analytic geometry
      General works, treatises, and textbooks
      Data processing
      Plane. Conic sections
      Solid
      Projective methods
      Problems, exercises, examinations
      Coordinates
      Equipollence
      Straight line and circle. Triangle
      Conics
      Curves
      Quadric surfaces
      Maxima and minima
    Algebraic geometry
      General works, treatises, and textbooks
      Higher algebraic curves
      General works, treatises, and textbooks
      Plane curves
      Special curves, A-Z
      Cubic
      Elliptic
      Isothermic
      Modular
      Orthogonal
      Quartic
      Quintic
      Smooth affine
Geometry

Algebraic geometry -- Continued

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
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
### MATHEMATICS

**Geometry**

**Topology**
- Algebraic topology. Combinatorial topology
- Low dimensional topology
  - Knot theory. Link theory
- Fixed points and coincidences
  - Cf. QA329.9 Fixed point theory
- Homology and cohomology theories
  - Cf. QA169 Homological algebra

**612.24**
- General works

**612.3**
- Intersection homology theory

**612.32**
- K-theory. KK-theory

**612.33**
- Sheaves

**612.5**
- Retracts
  - Fiber spaces. Fiber bundles. Fiberings

**612.6**
- General works

**612.63**
- Vector bundles

**612.7**
- Homotopy theory

**612.72**
- Homotopy equivalences

**612.76**
- Loop spaces

**612.77**
- H-spaces

**612.78**
- Homotopy groups

**612.782**
- Steenrod algebra

**612.79**
- Obstruction theory

**612.8**
- Spectral sequences

**613**
- Manifolds and cell complexes
  - Including distance geometry

**613.2**
- General works

**613.4**
- Topological manifolds

**613.6**
- Differential topology

**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

**614.3**
- Differentiable manifolds

**614.4**
- General works

**614.42**
- Jets

**614.44**
- Stratified sets

**614.46**
- Supermanifolds

**614.48**
- Pfaffian systems. Pfaffian problem

- Calculus on manifolds

**614.5**
- General works

**614.58**
- Differentiable mappings and singularities. Catastrophes
Geometry

Topology

Global analysis. Analysis on manifolds -- Continued

614.7  Critical point theory
614.73 Harmonic maps

Differentiable dynamical systems

Cf. QA611.5 Topological dynamics
Cf. QA871 Analytic mechanics

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
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
Geometry
  Differential geometry -- Continued
  648  Deformation of surfaces
  648.5  Web geometry
  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
       Attraction and potential
       Cf. QA404.7+ Potential theory
       Cf. QC570+ Electrostatics
  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
Analytic mechanics -- Continued

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
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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
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  Dynamics of a particle
    Cf. QB349+ Celestial mechanics
      Cf. QC174.17.P7 Problem of many bodies (Quantum theory)

851
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852
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  Including resistance, friction
853
Orbital and constrained motion
855
Motion of surfaces

Rigid dynamics
861
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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
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867
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867.5
  Nonlinear oscillations
871
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  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
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903
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905
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907
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    Including floating bodies, etc.
    Cf. VM761+ Stability of ships

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  Cf. TC160+ Hydraulics

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   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 Burbles
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
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
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1
   Periodicals, societies, congresses, serial publications
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2.A1
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2.A2-Z
   By region or country, A-Z
      Subarrange each country by Table Q5

3
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   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
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      Including zone observations, etc.
      For catalogs of double stars, multiple stars, binary systems see QB821
      For catalogs of variable stars see QB835

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   For ephemerides of individual planets, see QB611 QB621 etc.
      For ephemerides of planets collectively see QB603.E6

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8.A-Z
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9
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14.3
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      Including the Internet
14.5
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16
   General works
      Cf. CE21+ Ancient chronology
      Cf. GN799.A8 Astronomy (Prehistoric archaeology)
17
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18
   Hindu
19
   Assyro-Babylonian, etc.
      Jewish see QB34
20
   Egyptian
21
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22
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22.2
   Celtic
22.3
   Etruscan
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      Including Arabic astronomy
23
   General works
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25
   History
      Cf. BF1671+ Occult sciences
26
   Medieval works
      Cf. BF1680+ Occult sciences
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  Medieval
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    Copernicus
    Galileo
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    Cf. VK551 Navigation (Early works)
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    Cf. QB500 Descriptive astronomy
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  1801-1969
  1970-2000
  2001-
  Popular works
    Through 1969
    1970-2000
    2001-
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    To 2000
    2001-
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    Cf. QB63 Stargazers' guides
  Special aspects of the subject as a whole
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    Statistical methods see QB149
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  Extraterrestrial life
    Cf. CB156 Terrestrial, evidence of interplanetary voyages
  Astronomical myths, legends, and superstitions
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  Outlines, syllabi

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62.5 Problems, exercises, examinations
62.7 Laboratory manuals
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64 Observers' handbooks
   Cf. TL796.8 Artificial satellites
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   Cf. GA12 Manual for globes
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   Cf. QB500.267+ Orbiting astronomical observatories
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      Including homemade telescopes, optics, accessories
      For individual named telescopes in observatories see QB82.A+
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      Cf. QB500.268 Hubble Space Telescope
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to QB543 followed by author number and date of publication, e.g. QB543.98.I53
    1899, Indian eclipse, 1898; report of the expeditions, c1899
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603.A85
Atmospheres
Including meteorology
603.C6
Composition
603.C7
Cratering
Descriptive astronomy
Solar system
Planets. Planetology
Special topics, A-Z -- Continued

Crust
Ephemerides
Figures
Geology
Cf. TN291.3+ Space mining
Infrared radiation
Internal structure
Interplanetary medium
Including interplanetary dust
Ionospheres
Magnetic fields
Mass
Meteorology see QB603.A85
Motion
Including orbits
For orbits of individual planets see QB371+
Origin
Radiation
Rings
Cf. QB405 Ring system of Saturn
Cf. QB407 Ring system of Neptune
Spectroscopy
Surfaces
Volcanism
Tables, etc.
Photographs, maps, drawings
Miscellany and curiosa
Inferior planets
General works
Intramercural planets
Mercury
General works
Special topics, A-Z
Geology
Transit of Mercury see QB515
Venus
General works
Atmosphere
Geology
Meteorology
Transit of Venus see QB509+
Volcanism. Volcanoes
Winds
Earth as a planet. Astronomical geography
Cf. QE500+ Geology
Periodicals, societies, congresses, serial collections
General works, treatises, and textbooks
Popular works
Juvenile works
Origin
Rotation
Descriptive astronomy
Solar system
Planets. Planetology
  Earth as a planet. Astronomical geography -- Continued
  Photographs from space
  Seasons
    Cf. GR930 Folklore
   637
  General works, treatises, and textbooks
   637.2
  Juvenile literature
   637.4
  Spring
   637.5
  Summer
   637.6
  Autumn
   637.7
  Winter
   637.8
Miscellany and curiosa
   638
  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
   643.S42
     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
   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
Descriptive astronomy
Solar system
Planets. Planetology
Superior planets
Outer planets
Neptune
Special topics, A-Z
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
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
724 Comets before 1700
725 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
Descriptive astronomy
Solar system
Comets -- Continued

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

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

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

Distribution of comets
Nature and constitution (before the spectroscope)
Nature and constitution (modern views)
Meteoroids
Meteoroids
Periodicals, societies, congresses, serial publications
General works, treatises, and textbooks
Juvenile works
Methods of observation and geometrical topics
Including radiants, altitude, etc.

Periodic showers
November
August
Orbits
Streams
Relation between meteors and comets
General works
Other theories of the origin of meteors
Remarkable meteors, fireballs
Meteorites
Including craters
Cf. QE399 Tektites

Periodicals, societies, congresses, serial publications
General works, treatises, and textbooks
Juvenile literature
Addresses, essays, lectures
By region or country, A-Z
Individual meteorites and craters, A-Z
Allende meteorite
Chinguetti meteorite
Fermo meteorite
Jibal Waqf as Sawwan Crater
Kurinelli meteorite
Meteor Crater (Ariz.)
Orgueil meteorite
Port Orford meteorite
Sikhote-Alin meteorite
Thuathe meteorite
Tunguska meteorite
Vredefort Dome (South Africa)

Meteorite types or classes
Iron meteorites. Siderites
Descriptive astronomy

Solar system

Meteorites

Meteorite types or classes

Iron meteorites. Siderites -- Continued

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

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
Descriptive astronomy
Stars
   Motion -- Continued
     810   General works
     811   Proper motion
     812   Stellar oscillations. Astroseismology
     813   Parallax and distance
     814   Masses
     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
     821   Double and multiple stars. Binary systems
       Cf. QB421 Theory
       Cf. QB903 Spectroscopy
     823   General works, treatises, and textbooks
       Including observations, catalogs
     829   Particular stars (not A-Z)
     830   Colors of double stars
     831   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
     843.F55  Flare stars
     843.L85  Luminous blue variables
     843.M16  M stars
Descriptive astronomy
Stars
Other particular types of stars, A-Z -- Continued
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
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
Descriptive astronomy

Stars

Galaxies

Special topics, A-Z -- Continued

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
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
### Cosmogony. Cosmology

#### Special topics, A-Z -- Continued

- 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
    e.g.
    Curie, Marie and Pierre see QD22.C8
  16.E5 Einstein
  16.N7 Newton
  16.2 Directories
Early works
Early works -- Continued
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
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
Mathematical physics
Special topics, A-Z -- Continued

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

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
Mathematical physics
   Study and teaching. Research -- Continued
   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
      General works
   44
      By region or state, A-Z
      Subarrange each state by Table Q7
   45.A-Z
      Other regions or countries, A-Z
      Subarrange each country by Table Q7
   47.A-Z
   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+

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
Weights and measures -- Continued

90 Elementary textbooks
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

100.A2 General works, treatises, and textbooks
100.A3-Z By region or country, A-Z
100.5 General works
100.8 Catalogs

Measurement of special quantities
  Including instruments used in measurement
101 Length
  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
105 Mass and weight
  Standards
    Measurement
      Cf. QC172+ Atomic mass
      Cf. QC454.M3 Mass spectrometry
106 General works
107 Weighing instruments, balances, scales, etc.
     Cf. TS410 Manufactures
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
Descriptive and experimental mechanics -- Continued
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
  General works
128  Problems, exercises, examinations
129.5  Laboratory manuals
131  Special aspects of the subject as a whole
Dynamics. Motion
  Cf. QA843+ Analytic mechanics
  Cf. UF820+ Ballistics
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
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
Descriptive and experimental mechanics
Fluids. Fluid mechanics -- Continued

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  Diffusibility
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
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
Descriptive and experimental mechanics
Fluids. Fluid mechanics
Fluid dynamics. Hydrodynamics -- Continued

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
  Cf. QA925 Analytic mechanics
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
  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.
Descriptive and experimental mechanics
  Fluids. Fluid mechanics
    Gas dynamics. Motion of gases -- Continued
  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
  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
  171
  General works, treatises, and textbooks
  171.2
  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
  173.4.L56
  Liquid metals
    Cf. TA463 Engineering
Atomic physics. Constitution and properties of matter
Properties of matter and antimatter (General)
Special topics, A-Z -- Continued

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
  Polarizibility

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

173.458.S87
  Surfaces

173.458.T48
  Thermal properties

173.458.U54
  Universalsities

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
Atomic physics. Constitution and properties of matter
Relativity physics -- Continued
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
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
Poplar 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
  Bayesianism, Quantum see QC174.17.Q29
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
Atomic physics. Constitution and properties of matter
Quantum theory. Quantum mechanics

Special topics, A-Z -- Continued
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
174.17.I76  Irreversible processes
            Cf. QC318.I7 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
174.17.Q29  Quantum Bayesianism
            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
Atomic physics. Constitution and properties of matter
Quantum theory. Quantum mechanics
Special topics, A-Z -- Continued

174.17.S76  Stochastic processes
174.17.S77  Sum rules
174.17.S78  Supergravity see QC174.17.S9
174.17.S79  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
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
           Geometrical
174.24.G4  Nonlinear
174.24.N6  Relativistic
174.24.N64 Nonrelativistic
174.24.R4  Relativistic
           Atomic and molecular orbitals see QD461
174.26.B58 Bivectors
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
Atomic physics. Constitution and properties of matter
Quantum theory. Quantum mechanics
Quantum field theory -- Continued

174.46 Addresses, essays, lectures
174.52.A-Z Special topics, A-Z
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
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
Atomic physics. Constitution and properties of matter

Statistical physics -- Continued

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
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
Atomic physics. Constitution and properties of matter
Solids. Solid state physics
Study and teaching. Research -- Continued

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.F3 Fermi surface
176.8.F74 Free electron theory of metals
   Hole burning, Optical see QC176.8.O58
176.8.H66 Hopping conduction
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
Atomic physics. Constitution and properties of matter
   Solids. Solid state physics
   Special topics, A-Z -- Continued
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
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

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
Acoustics. Sound
Laboratories -- Continued
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.A24
   Acoustic localization
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
   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
Heat -- Continued

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

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
Heat
   Relations between pressure, volume, and temperature -- Continued
   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
   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
      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
Heat

Thermodynamics -- Continued

311.3
- Handbooks, tables, formulas, etc.
- Special types of thermodynamics

311.5
- Statistical

311.7
- Relativistic

312
- Mechanical equivalent of heat

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

321.7.E4
- Electromechanical analogies

321.7.T55
- Thermal diffusivity

323
- Experiments
Heat

Heat transfer -- Continued

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

331
Radiation and absorption. Laws of cooling

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

1801-1969

1970-2000

2001-

358
Elementary textbooks

358.5
Popular works

360
Juvenile works

361
Addresses, essays, lectures

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.L38
Laser velocimetry
Optics. Light  
Optical measurements  
Special topics, A-Z -- Continued
367.3.P37  
Particle dynamics analysis
367.3.P65  
Polarimetry
367.3.S64  
Speckle metrology
367.3.V45  
Velocimetry
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
   General works
372.22  
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
   Interference microscopes see QH212.I5
373.K3  
Kaleidoscopes
373.L5  
Light filters
373.M33  
Magnifying glasses. Hand lenses
   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
Optics. Light
Optical instruments and apparatus (General)
Special instruments, A-Z -- Continued
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
General works
382
Problems, exercises, examinations
382.6
Laboratory manuals

383
Mathematical theory

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
Optics. Light

Physical optics -- Continued

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
    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
Optics. Light
Physical optics
Dispersion -- Continued
431
General works
435
Anomalous dispersion
437
Incidence
Including grazing incidence
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
Including optical vortices
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
Magnetooptics 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
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
Optics. Light
Spectroscopy -- Continued

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
   Alpha ray spectroscopy see QC793.5.A22+
454.A7 Arc spectra
454.A8 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
   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.O65 Optical admittance spectroscopy
454.O66 Optical spectroscopy
Optics. Light
Spectroscopy

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

454.O68 Optogalvanic spectroscopy
454.P46 Photodetachment threshold spectroscopy
454.P48 Photoelectron spectroscopy
454.R3 Plasma spectroscopy see QC718.5.S6
454.R36 Raman spectroscopy
454.R4 Reflectance spectroscopy
454.R47 Resonance ionization spectroscopy
454.R5 Resonant ultrasound spectroscopy
454.R56 Rotational spectra see QD481
454.S7 Scintillation spectroscopy see QC491.5+
454.T47 Spark spectroscopy
454.T75 Time-of-flight mass spectroscopy see QC454.M3
454.T75 Tunneling spectroscopy
454.V5 Ultraviolet spectroscopy see QC459+
455 Solar spectrum
455.7 Including wavelength measurements and maps
455.75 For works relating to the constitution and physical condition of the sun see QB551

457 Infrared spectrum
457.5 Ultraviolet spectrum

459 Spectra of special substances

462.A-Z Special elements and groups of elements, A-Z (Table Q1 modified)
462.A4 Alcohols
462.A47 Alkaloids
462.A8 Amines
462.A84 Anthracene and derivatives
462.A86 Anthraquinones
462.B4 Benzene
462.B5 Biphenyl compounds
462.C3 Carbohydrates
462.C5 Chelates
462.C54 Chlorophyll
Optics. Light
Spectroscopy
Spectra of special substances
Organic compounds
Special organic compounds, A-Z -- Continued

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
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
Optics. Light
Spectroscopy
Spectra of special substances
Inorganic substances, A-Z -- Continued

464.N574 Nitric acid
464.N577 Nitrogen dioxide
464.N64 Nonmetallic minerals
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
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
Radiation physics (General)

Luminescence -- Continued

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
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+
Radiation physics (General) -- Continued

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.I5  
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
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
Radiation physics (General)

Other radiations
Scintillation spectroscopy -- Continued
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
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
  e.g.
515.A6 Ampère
515.O4 Ohm
Early works
516 Through 1700
Electricity and magnetism
  Electricity
    Early works -- Continued
      1701-1850
    General works, treatises, and advanced textbooks
      1851-1969
    Treatises
    Descriptive and experimental works
    1970-
  Elementary textbooks
  Popular works
  Juvenile works
  Addresses, essays, lectures
  Special aspects of the subject as a whole
  Special topics, A-Z
  Electromechanical analogies
    Maxwell's equations see QC669+
    Vector theory
  Handbooks, tables, formulas, etc.
  Study and teaching, Research
    For programmed texts see QC518+
  General works
  Outlines, syllabi
  Problems, exercises, examinations
  Experiments
  Laboratory manuals

Electric measurements
  Cf. TK275+ Electrical engineering
  General works
  Electric units
  Standards
  Laboratories
  General works
  By region or country, A-Z
    Subarrange each country by Table Q6
  Instruments and apparatus (General)
  General works, treatises, and textbooks
  Special instruments, A-Z
    Ammeter
      see QC645
    Cathode ray tubes
      see TK7871.73
    Coils see QC645
    Current balance
    Cyclotrons see QC787.C8
    Decremeters see QC667+
    Electric meters see TK301+
  Electrodynamometer
  Electrometer
  Electrophori
  Electrostatic lenses
  Galvanometer
  Gas tubes
    see TK7871.8+
  Phonic wheel
  Potentiometer
Electricity and magnetism

Electricity

Instruments and apparatus (General)
Special instruments, A-Z -- Continued

544.Q3
Quadruple lenses

(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
585.75.T58
Titanates
585.8.A-Z
Special types of dielectrics, A-Z
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)
Electricity and magnetism

Electricity

Electrostatics. Frictional electricity -- Continued

Pyroelectricity

Cf. QD939 Electric properties of crystals
Cf. TK7872.O7 Oscillators

Piezoelectricity

Cf. TK7872.P54 Piezoelectric devices

Ferroelectricity

Cf. QC715.17 Photoferroelectric effect
Cf. QD939 Electric properties of crystals

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Addresses, essays, lectures

Electric current (General)

Cf. QC641 Alternating currents
Cf. QD551+ Electrolysis
Cf. TK454+ Electric circuits and networks

General works

Ohm's law

Conduction in gases and vapors

see QC710+

Electric conductivity

Cf. TK3301+ Electric conductors

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Electric resistance

Cf. QC761+ Magnetic induction
Cf. QC809.E15 Earth resistance
Cf. TK7872.R4 Electric resistors

General works

Magnetoresistance

Semiconductor physics

Class here general works on the physical properties of semiconductor materials

For works on semiconductor materials used in electronic engineering see TK7871.85+

Cf. QC176.8.E4 Solid-state electronics

Periodicals, societies, congresses, serial publications

Collected works (nonserial)

Nomenclature, terminology, notation, abbreviations

History

General works, treatises, and textbooks

Addresses, essays, lectures

Special aspects of the subject as a whole

Study and teaching. Research

General works

Problems, exercises, examinations

Laboratory manuals

Instruments and apparatus

Handbooks, tables, formulas, etc.

Special topics, A-Z

Acoustic properties

Defects

Diffusion

Doping

Electron-hold droplets

Electron transport
Electricity and magnetism
  Electricity
  Electric current (General)
  Electric conductivity
  Semiconductor physics
    Special topics, A-Z -- Continued
      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
    Chalcopryite
  611.8.C6
    Compensated semiconductors
  611.8.C64
    Compound semiconductors
  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
  611.9
    Periodicals, societies, congresses, serial collections
  611.917
    History
Electricity and magnetism
  Electricity
    Electric current (General)
    Electric conductivity
    Superconductivity physics -- Continued
  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
  611.96
    General works
      By region or country
        United States
  611.962
    General works
  611.964.A-Z
    By region or state, A-Z
  611.966.A-Z
    Other regions or countries, A-Z
  611.97.A-Z
    Special topics, A-Z
  611.97.C54
    Chemistry
  611.97.E69
    Equilibrium
      Including nonequilibrium
  611.97.F58
    Fluctuations
  611.97.M34
    Magnetic properties
      Nonequilibrium see QC611.97.E69
  611.97.R33
    Radiation effects
  611.97.S64
    Spectra
  611.97.T46
    Temperature effects
      Including transition temperature
  611.97.T54
    Thermal properties
      Transition temperature see QC611.97.T46
  611.97.T86
    Tunneling
  611.98.A-Z
    Special superconducting materials or types of superconductors, A-Z
  611.98.A44
    Alloys
  611.98.A48
    Aluminum
  611.98.A58
    Anyon superconductivity
  611.98.C47
    Ceramic superconductors
  611.98.C53
    Chalcogenides
  611.98.C63
    Composites
  611.98.C64
    Copper
  611.98.D33
    d-band metals
  611.98.D57
    Dirty superconductors
  611.98.H54
    High temperature superconductors
  611.98.M34
    Magnetic
  611.98.N54
    Niobium
  611.98.O74
    Organic superconductors
  611.98.R88
    Ruthenium
  611.98.T37
    Ternary superconductors
  611.98.T55
    Thin film superconductors
  611.98.T73
    Transition metal oxides
  611.98.T86
    Type I superconductors
  611.98.T87
    Type II superconductors
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Superconductivity physics

Superconducting materials. Superconductors

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

611.98.V35
Vanadium
611.98.Z56
Zinc
612.A-Z
Other special topics, A-Z
612.H3
Hall effect

Cf. TK7872.H3 Hall effect devices
612.P5
Photoconductivity

Cf. TK8330+ Photoconductive cells
612.P6
Potential barrier
612.S6
Skin effect

Superconductivity see QC611.9+

613
Electric resonance

Cf. QC762 Nuclear magnetism

Cf. QC794.6.R4 Nuclear interaction
615
Measurements of currents

Including ammeters, voltameters
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
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
Electricity and magnetism

Electricity

Electrodynamics -- Continued

Electric coils
- Including induction coils
- Cf. TK2391 Electric coils (Dynamoelectric machinery)
- Cf. TK2805 Condensers (Dyanmoelectric machinery)
- Cf. TK7872.C56 Electronics

Vacuum polarization

Electric oscillations. Electric waves
- Including electromagnetic waves
- Cf. QB460+ Astrophysics
- Cf. QC809.E55 Cosmic electrodynamics

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Addresses, essays, lectures

Special topics, A-Z

Damping

Diffraction

Diffusion

Electric displacement

Electric fields

Electromagnetic fields

Electromechanical analogies

Photoabsorption

Polarization

Quadrupole moment

Scattering

Transmission

Velocity

Study and teaching. Research

General works

Problems, exercises, examinations

Instruments and apparatus
- Including decremeters

General works

Special equipment, A-Z

Anechoic chambers. Reverberation chambers
- Reverberation chambers see QC668.A54

Electromagnetic theory
- Including Maxwell's equations

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Study and teaching. Research

General works

Problems, exercises, examinations

Aberrations and moving media
- Cf. QB163 Correction of astronomical observations

Electrooptics (General)
- Cf. TA1750+ Applied electrooptics

General works

Special topics, A-Z

Kerr effect

Magnetooptics (General)

General works

Special topics, A-Z
Electricity and magnetism

Electricity
Electric oscillations. Electric waves
Electromagnetic theory
Magnetooptics (General)
Special topics, A-Z -- Continued

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
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
Electricity and magnetism

Electricity

Electric discharge -- Continued

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. QC787.16 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

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
Electricity and magnetism

Electricity

Electric discharge

Electric discharge through gases

Special topics, A-Z -- Continued

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   Cf. QC449.3 Electron holography
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Cf. QE501.4.P35 Paleomagnetism
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Cf. VK577 Nautical instruments

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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
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871  Methods of observation
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<tr>
<td>883.8</td>
<td>General works, treatises, and textbooks</td>
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<tr>
<td>883.82</td>
<td>Addresses, essays, lectures</td>
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<td>883.86.A-Z</td>
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Paleoclimatology

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<thead>
<tr>
<th>Code</th>
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<td>Special topics, A-Z</td>
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<td>884.2.C5</td>
<td>Climatic variations</td>
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<td>884.2.D4</td>
<td>Dendroclimatology</td>
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</table>

Atmospheric pressure

<table>
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<td>885.2</td>
<td>Charts, diagrams, maps, etc.</td>
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<td>Observations, Data summaries</td>
</tr>
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<td>885.6.A-Z</td>
<td>By region or country, A-Z</td>
</tr>
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Mercury barometers and barographs

<table>
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<tr>
<td>887</td>
<td>Tables for reductions</td>
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<td>889</td>
<td>Distribution, isobars, etc.</td>
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<td>891</td>
<td>Variations and oscillations</td>
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<tr>
<td>895</td>
<td>Barometric hypsometry</td>
</tr>
</tbody>
</table>
Meteorology. Climatology
  Atmospheric pressure -- Continued
  896
  Aneroid barometers and barographs
  Temperature and radiation
  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.
        For social aspects see HN49.C55
    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.
  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
  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
Meteorology. Climatology
Temperature and radiation
Atmospheric radioactivity
Special topics, A-Z -- Continued

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.C78
Cumulonimbus
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
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
Meteorology. Climatology
   Aqueous vapor -- Continued
   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
            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
Meteorology. Climatology
Aqueous vapor
Rain and rainfall
Observations. By region or country -- Continued
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
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+
Meteorology. Climatology
Aqueous vapor
Other topics, A-Z -- Continued

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
Rainmaking see QC928.6
929.S4
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
Meteorology. Climatology

Wind

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

939.L37
Land and sea breezes

939.M7
Monsoons

939.M8
Mountain and valley winds
   Including Santa Ana

939.N8
Norther

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. HV635.5+ Disaster relief and socioeconomic consequences
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 curios

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

Dust storms. Dust devils. Sandstorms

958
General works

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

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
Meteorology. Climatology

Electrical phenomena in the atmosphere -- Continued

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

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

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
Meteorology. Climatology
   Radio meteorology. Microwave meteorology
      Special topics, A-Z -- Continued
         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

973.45
   Radar meteorology
   Periodicals, societies, congresses, serial publications

973.5
   General works, treatises, and textbooks

973.6
   Addresses, essays, lectures
      Radar stations

973.62.A1
   General works

973.62.A2-Z
   By region or country, A-Z

973.7
   Instruments and apparatus
      Including rawinsondes

973.8.A-Z
   Special topics, A-Z

973.8.E3
   Echoes

973.8.R4
   Refraction

973.8.W4
   Weather radar networks

974.5
   Meteorological optics
      Periodicals, societies, congresses, serial publications

974.6
   Collected works (nonserial)
      General works, treatises, and textbooks

975
   1801-1969

975.2
   1970-

975.3
   Juvenile literature

975.6
   Addresses, essays, lectures

975.8
   Handbooks, tables, formulas, etc.
      Observations

975.9.A1
   General works, treatises, and textbooks

975.9.A2-Z
   By region or country, A-Z

976.A-Z
   Special topics, A-Z

976.A3
   Airglow

976.C6
   Coloration of the sky

(976.C7)
   Gegenschein see QB761
      Counterglow

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
Meteorology. Climatology -- Continued

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
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
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
Meteorology. Climatology
   Climatology and weather -- Continued
   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
   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
   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
   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
Meteorology. Climatology

Climatology and weather

Geographic divisions -- Continued

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

995.43
Juvenile works

995.45
Addresses, essays, lectures

995.46
Study and teaching. Research Technique (General)

995.48
General works

995.485
Observers' manuals

Types of weather forecasting

995.5
Hydrodynamic

996
Numerical

996.5
Statistical

997
Long-range

997.5
Short-range

997.75
Nowcasting

998
Weather lore

Cf. GR635+ Weather lore (as folklore)

999
Weather almanacs and miscellany
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


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

Biography

24.A2 Collective

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 Elixir of life

Philosopher's stone see QD25

27 Early works through 1761

General works, treatises, and advanced textbooks
General works, treatises, and advanced textbooks -- Continued

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

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
Laboratories
   Instruments and apparatus
       Special, A-Z -- Continued
   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
   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
Analytical chemistry

Special topics, A-Z -- Continued

75.4.C45 Chemometrics
75.4.E4 Electronic data processing
   Forensic chemistry see RA1057
75.4.K54 Kinetics
   see QD75.4.C45

(75.4.M36)
(75.4.M4)

Measurement
   see QD75.4.C45

Preparation of samples see QD75.4.S24
75.4.Q34 Quality control
Sample introduction see QD75.4.S24
75.4.S24 Sample preparation. Sample introduction
75.4.S25 Sampling
75.4.S73 Stable isotopes
(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.
Analytical chemistry
Qualitative analysis -- Continued

87
Blowpipe analysis
Cf. QE367+ Determinative mineralogy

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
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
Analytical chemistry
  Qualitative analysis
   Spectrum analysis (Qualitative and quantitative)
    Special methods and types of spectra, A-Z -- Continued
  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
  115  Electrochemical analysis
   Anodic stripping voltammetry see QD116.V64
   Conductometric analysis
   Impedance spectroscopy
   Polarography
   Potentiometry
   Stripping voltammetry see QD116.V64
   Voltammetry
    Including stripping voltammetry, anodic stripping voltammetry, etc.
  117.A-Z  Other special methods, A-Z
  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
Analytical chemistry
  Technical analysis -- Continued
  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
    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
      Textiles
        see TS1449
    139.T7
      Trace elements
Analytical chemistry
   Technical analysis
   Other special, A-Z -- Continued
      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
149
   Nomenclature, terminology, notation, abbreviations
      History
      General works
149.5
      By region or country, A-Z
150
      Early works through 1800
      General works, treatises, and advanced textbooks
      1801-1969
      1970-2000
      2001-
151
      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
**Inorganic chemistry**

**Metals**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.A3</td>
<td>Actinide elements</td>
</tr>
<tr>
<td>172.A4</td>
<td>Alkali metals</td>
</tr>
<tr>
<td>172.A42</td>
<td>Alkaline earth metals</td>
</tr>
<tr>
<td>172.I7</td>
<td>Iron group</td>
</tr>
<tr>
<td>172.M4</td>
<td>Magnesium group</td>
</tr>
<tr>
<td>172.P8</td>
<td>Platinum group</td>
</tr>
<tr>
<td>172.P88</td>
<td>Precious metals</td>
</tr>
<tr>
<td>172.R2</td>
<td>Rare earth metals</td>
</tr>
<tr>
<td>172.S6</td>
<td>Spinel group</td>
</tr>
<tr>
<td>172.S93</td>
<td>Superheavy elements</td>
</tr>
</tbody>
</table>

Cf. QC796.2 Nuclear physics

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.T52</td>
<td>Titanium group</td>
</tr>
<tr>
<td>172.T6</td>
<td>Transition metals</td>
</tr>
</tbody>
</table>

Including MXenes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>172.T65</td>
<td>Transplutonium elements</td>
</tr>
<tr>
<td>172.T7</td>
<td>Transuranium elements</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>189</td>
<td>General works</td>
</tr>
<tr>
<td>191</td>
<td>Double salts</td>
</tr>
<tr>
<td>193</td>
<td>Complex salts</td>
</tr>
<tr>
<td>194</td>
<td>Oxysalts</td>
</tr>
<tr>
<td>196</td>
<td>Inorganic polymers and polymerization</td>
</tr>
<tr>
<td>197</td>
<td>Cyclic compounds</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>248</td>
<td>General works</td>
</tr>
<tr>
<td>248.5.A-Z</td>
<td>By region or country, A-Z</td>
</tr>
</tbody>
</table>

General works, treatises, and advanced textbooks

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>251</td>
<td>Through 1970</td>
</tr>
<tr>
<td>251.2</td>
<td>1971-2000</td>
</tr>
<tr>
<td>251.3</td>
<td>2001-</td>
</tr>
</tbody>
</table>

Elementary textbooks

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>253</td>
<td>To 2000</td>
</tr>
<tr>
<td>253.2</td>
<td>2001-</td>
</tr>
</tbody>
</table>

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
Organic chemistry
Special topics, A-Z -- Continued

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
  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
    General works
    272.C4
    Gas chromatography
    272.C44
    Gel permeation chromatography
    272.C447
    Liquid chromatography
    272.C45
    Thin layer chromatography
    272.C6
    Colorimetric analysis
    272.E4
    Electrochemical analysis
    272.E43
    Electrophoresis
    272.E5
    Enzymatic analysis
    272.M5
    Microchemical analysis
    272.P5
    Photometry
    272.S57
    Spectrophotometry
    272.S6
    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.T45
    Thermal analysis
    272.V6
    Volumetric analysis

273
Electrochemistry of organic compounds
  Cf. QP517.B53 Bioelectrochemistry

275
Organic photochemistry
  Cf. QP517.P45 Photobiochemistry

277
Electric furnace operations

281.A-Z
Other special, A-Z
Organic chemistry
Operations in organic chemistry
Other special, A-Z -- Continued

281.A2
Acylation
281.A5
Alkylation
281.A6
Amination
281.A63
Ammonolysis
281.B7
Bromination
281.C3
Catalysis
281.C5
Chlorination
281.C7
Condensation
Cyclization see QD281.R5
281.D4
Dehydrogenation
281.D47
Dialysis
281.D5
Distillation
281.E4
Elimination reactions
281.F5
Flotation
281.F55
Fluorination
281.F7
Fragmentation reactions
281.H3
Halogenation
281.H78
Hydroboration
281.H79
Hydroformylation
281.H8
Hydrogenation
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
Solvolytic
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
Organic chemistry
Aliphatic compounds

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
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
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   Cf. QP801.U7 Animal biochemistry

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327 Tannins

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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

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Polymers. Macromolecules

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382.R43  Reactive polymers
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383.B67  Boron organic polymers
383.E66  Epoxy polymers
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383.F84  Fullerene polymers
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383.S54  Silicon polymers
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412.5
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Cf. QH345 General biochemistry of plants and animals
Cf. QK861+ Plant biochemistry
Cf. QP501+ Animal biochemistry

415.A1
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415.A2
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Cf. TP958+ Essences (Chemical technology)

416.A1
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Cf. TP1101+ Plastic materials for synthetic gums and resins

419.A1
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Cf. QK898.A4 Plant constituent
Cf. RM666.A4 Therapeutics
Cf. RS431.A53 Pharmaceutical chemistry

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

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  455.3.M3
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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
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462.6.D45 Density functionals
462.6.D46 Density matrices
462.6.E53 Energy levels
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462.6.M39 Mathematics
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462.6.R44 Relaxation phenomena
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462.6.S94 Symmetry groups
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   Cf. QD601+ Radiochemistry
   Cf. TK9400+ Radioisotopes in nuclear engineering
467 Classification. Periodic law
469 Valence
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470 Allotropy
471 Chemical compounds - Structure and formulas
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   Cf. QD481 Stereochemistry
473 Physical properties in relation to structure
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   Cf. QD441 Colored organic compounds
   Cf. QD931+ Physical properties of crystals
474 Complex compounds
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   Cf. QD281.D5 Operations in organic chemistry
   Cf. TP156.D5 Chemical engineering processes
   Cf. TP589+ Distilling industries

531
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   Cf. TP242+ Chemical technology of gases

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   Cf. TP480+ Low temperature engineering

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   Cf. QD565 Electrolyte solutions

540
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541
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543
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   General works

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   Cf. TP247.5 Technology of organic solvents

545
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547
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548
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   Cf. QD921+ Crystal structure and growth
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549
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   Cf. QP525 Animal biochemistry
   Cf. S593.3 Soil colloids

549.2.A-Z
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549.2.C66
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549.2.F74
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549.2.P64
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   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
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554.5
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555
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555.6.G74  Green's functions
555.6.I58  Interfaces
555.6.L37  Laser electrochemistry
555.6.M36  Mathematical models
555.6.N65  Nonaqueous solvents
555.6.S65  Spectrum analysis
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556  Problems, exercises, examinations
557  Laboratory manuals
558  Electrochemical laboratories

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

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560  Handbooks, tables, formulas, etc.

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561  General works
562.A-Z  Special topics, A-Z
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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

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.

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572.I76  Iron
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575.C65  Complex compounds
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   575.P67
   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 Magnetoochemistry
      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)
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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)
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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.
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)
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635 Through 1970
636 1971-
641 Addresses, essays, lectures
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651.A4
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651.N5
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651.P6
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651.W3
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Cf. QD275 Organic photochemistry
Cf. QD578 Photoelectrochemistry
Cf. QP517.P45 Photobiochemistry
Cf. TP249.5 Industrial photochemistry
Cf. TR200+ Photographic chemistry

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General works, treatises, and textbooks

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715
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716.F54
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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
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730.A-Z
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730.C65
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730.S35
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730.T73
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731.A-Z
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801  
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  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

882  
  Supramolecular organometallic chemistry

Crystallography
  Cf. QE372+ Descriptive mineralogy

901  
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901.2  
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902  
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902.5  
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  1970-

906  
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906.3  
  Juvenile works

906.5  
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906.6  
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906.7.E4  
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906.7.N83  
  Nuclear magnetic resonance spectroscopy
  Statistical methods see QD919

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907.5  
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907.7  
  Instruments and apparatus

908  
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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

921  
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   Crystal structure and growth -- Continued

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
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7 Nomenclature, terminology, notation, abbreviations

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11 General works
13.A-Z By region or country, A-Z

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21 Collective
  e.g.
22.D25 Dana, James Dwight
22.L8 Lyell, Charles
22.S77 Steno, Nicolaus

23 Directories
25 Early works through 1800

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26 1801-1969
26.2 1970-2000
26.3 2001-

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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
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
38  Environmental geology
38.5  Forensic geology
39  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  Paleoclimatology see QC884+
39.5.P27  Paleohydrology
39.5.P3  Paleolimnology
39.5.P35  Paleomagnetism see QE501.4.P35
39.5.P34  Paleoseismology see QE539.2.P34
39.5.U7  Urban geology
   For urban geology of a particular place see QE65+
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43  Models, diagrams, etc.
44  Laboratory manuals
45  Fieldwork
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47.A2-Z  By region or state, A-Z
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48.86  Information services
48.87  Computer network resources
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49.5  Instruments and apparatus
50  Collection and preservation
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51.A1 General works  
51.A2-Z By region or country, A-Z  
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52 Handbooks, tables, formulas, etc.  
53 Miscellany and curiosa  
55 Dealers’ catalogs of specimens  
61 Surveys (History, organization, etc.)  
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65 Miscellaneous regions  
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70 Arctic regions. Greenland  
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70.5 General works  
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71 General works  
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72 Surveys (General)  
73 Surveys, before 1861  
74 Surveys, 1865-1879  
    United States Geological Survey  
    General publications of the USGS  
    Works about the USGS  
77 General works  
Special regions  
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  
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83 General works  
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85 General works  
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87 General works  
88.A-Z Local, A-Z  
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89 General works  
90.A-Z Local, A-Z  
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91 General works  
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      262.B75
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      262.L2
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353   Collected works (nonserial)
355   Dictionaries and encyclopedias
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366.8 Handbooks, tables, formulas, etc.

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   Cf. QD87 Blowpipe analysis
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367 1801-1969
367.2 1970-
368.9 Special aspects of the subject as a whole
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391.C32   Celestite
391.C35   Chalcocite
391.C38   Chalybite
391.C392  Chamosite
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Description of special minerals, A-Z -- Continued
Mineralogy

Description of special minerals, A-Z -- Continued

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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
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394.E5  Emeralds
394.J3  Jade
394.J46  Jet
394.L37  Lapis lazuli
394.O7  Opals
394.R8  Rubies
394.S3  Sapphires
394.T8  Turquoise

396 Leucoxene

397 Rock-forming minerals
Metamorphic rocks 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
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427.A1 General works
427.A2-Z By region or country, A-Z
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451
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  Australia

453.5
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  New Zealand

454.5
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Pacific islands

455.A1
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456.A1
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456.A3-Z
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  Offshore islands generally class with adjacent mainland

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  Antarctica

456.5.A1
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    Offshore islands generally class with adjacent mainland

456.8
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Adakite

462.A35
Alaskite

462.A37
Albitite

462.A4
Alkaline igneous rocks

462.A5
Andesite

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
Petrology
Igneous rocks, volcanic ash, tuff, etc.
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462.I35 Ignimbrite
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
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462.R4 Rhyolite
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471.15.A7 Arkose
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471.15.B34 Beachrock
471.15.B4 Bentonite
471.15.B7 Breccia
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471.15.C3 Carbonate rocks
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472  Sedimentary structures
473  Paleopedology
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475.E25  Eclogite
475.G55  Gneiss
475.G7  Granulite
475.J27  Jadeite
475.J3  Jasperoid
475.L57  Listwanite
475.M3  Marble
475.M45  Metabasite
475.M5  Migmatite
475.M95  Mylonite
475.P47  Phyllite
475.Q3  Quartzite
475.S3  Schist
475.S39  Schungite
475.S47  Serpentinite
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
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501.4.M38  Mathematics
501.4.M6  Mohole project
501.4.N9  Nuclear geology. Isotope geology
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501.4.P3 Paleogeography
501.4.P35 Paleomagnetism
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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
   Including continental crust, cratons, and glacial isostasy
   Cf. QB331 Gravity determinations
511 Earth's crust. Isostasy
   Including continental crust, cratons, and glacial isostasy
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
514.6 Biography
514.62.A-Z Collective
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515.15 General works
   United States
515.16 General works
515.17.A-Z By region or state, A-Z
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515.18 General works
515.185.A-Z By region or province, A-Z
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Geochemistry

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515.5.G43  Geochemical modeling
515.5.G45  Geochemical self-organization
515.5.K55  Kinetics
515.5.R45  Remote sensing
515.5.T46  Thermodynamics
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516.A35  Alkali metals
516.C37  Carbon
        Including carbon sequestration by natural causes
        Cf. TD885.5.C3 Carbon sequestration technologies
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
521  General works, treatises, and textbooks
521.2  Popular works
Dynamic and structural geology
Volcanoes and earthquakes -- Continued

521.3
Juvenile works
Volcanoes. Volcanism
Including supervolcanoes

521.5
Periodicals, societies, congresses, serial publications

522
General works, treatises, and textbooks

523.A-Z
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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
Fuju, 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
Peleé, Mount (Martinique)
523.P56
Pinatubo, Mount (Philippines)
523.P8
Pitón de la Fournaise (Réunion) see QE523.F68
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

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524.2.A-Z
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For individual volcanoes see QE523.A+

Eastern Hemisphere. Europe, Africa
526
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Eastern Hemisphere. Asia, Australasia
527
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Including volcano monitoring
527.55
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527.56
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527.6
Volcanic hazard analysis. Safety measures
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527.7
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Volcanic gases and vapors
Including volcanic gas reservoirs
528
Geysers, hot springs, etc.
529
Miscellany and curiosa
Dynamic and structural geology
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  Cf. TC181 Earthquakes and hydraulic structures
  Cf. TC542.5 Earthquakes and dams
  Cf. TF539 Damage to railroads
  Cf. TH1095 Earthquakes and building

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534.3
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    General works
535
535.2.A-Z
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  Eastern Hemisphere. Europe, Africa
    General works
536
536.2.A-Z
    By region or country, A-Z
  Eastern Hemisphere. Asia, Australasia
    General works
537
537.2.A-Z
    By region or country, A-Z
537.5
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    Antarctica
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538.8
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539.2.A-Z
    Special topics, A-Z
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539.2.D36
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539.2.I46
    Induced seismicity
539.2.I5
    Intensity
539.2.M37
    Mathematics
539.2.M5
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539.2.P34
    Paleoseismology
539.2.P4
    Periodicity
539.2.R45
    Remote sensing
539.2.S34
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    For safety measures or hazard analysis in specific geographic regions, see QE535+
539.2.S37
    Seismic event location
539.2.S4
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539.2.S43
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e.g.
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566.M87 Mururoa Atoll
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Including paleoweathering
Sedimentation
Including erosion and deposition
For sedimentary rocks and sedimentology see QE471+
571 General works
573 Cryopedology
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 Eversion
597 Aerial erosion
Earth movements. Mass movements
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598.2 General works, treatises, and textbooks
598.3 Juvenile works
598.5.A-Z By region or country, A-Z
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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
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600.2 General works, treatises, and textbooks
600.3.A-Z By region or country, A-Z
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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
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      601.8    Problems, exercises, examinations
      602    Stratification
      604    Deformation
      605    Joints and cleavages
      606    General works, treatises, and textbooks
      606.3.A-Z  Special topics, A-Z
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      607.5.A-Z  By region or country, A-Z
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        Cf. TN263 Ore deposits
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      612.5.A-Z  By region or country, A-Z
      613    General works, treatises, and textbooks
      613.5.A-Z  By region or country, A-Z
      615    General works, treatises, and textbooks
      615.5.A-Z  By region or country, A-Z
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      621.5.A-Z  By region or country, A-Z
      625    Effects of plants, animals, and man in geology
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    North America
    626    General works
    627    United States
    627.5.A-Z  By region or state, A-Z
    628    Canada
    628.5.A-Z  By region, province, or territory, A-Z
    629    Mexico
    629.5.A-Z  By region or state, A-Z
    630.A1    General works
    630.A3-Z  By region, country, or island, A-Z
      Offshore islands generally class with adjacent mainland
    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
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General works
637.5.A-Z
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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
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639.5.A3-Z
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Offshore islands generally class with adjacent mainland

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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.

651
General works, treatises, and textbooks
651.5
Cyclostratigraphy
652
Data processing
652.5
Stratigraphic correlation
652.55.A-Z
By region or country, A-Z
Precambrian
653
General works
653.3
Archaean
Stratigraphy
Precambrian -- Continued
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
688
        Upper
689
    Cretaceous-Tertiary boundary
Cenozoic
690
    General works
    Tertiary
691
        General works
        Paleogene
691.5
        General works
692
        Paleocene
692.2
        Eocene
692.8
        Eocene-Oligocene boundary
693
        Oligocene
        Neogene
693.5
        General works
694
        Miocene
695
        Pliocene
695.5
        Pliocene-Pleistocene boundary
Stratigraphy
Cenozoic -- Continued
Quaternary
696  General works
   Pleistocene. Glacial epoch
697  General works
698  Cause of the glacial epoch
699  Holocene, Recent
   Geological climate see QE698
   Paleoclimatology see QC884+

Paleontology
701  Periodicals, societies, congresses, serial publications
702  Collected works (nonserial)
703  Dictionaries and encyclopedias
   Communication of information
704  General works
704.2  Information services
704.3  Computer network resources
   Including the Internet

History
705.A1  General works
705.A2-Z  By region or country, A-Z

Biography
707.A2  Collective
   Including directories
707.A3-Z  Individual, A-Z
   e.g.
707.T4  Teilhard de Chardin, Pierre
707.Z8  Zittel, K.A.

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
Paleontology -- Continued

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
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
Taphonomy see QE721.2.F6
721.2.V3  Variation
723  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
Paleontology

Stratigraphic divisions (General and zoological)

Mesozoic -- Continued

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
  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

755.A-Z
  Other regions or countries, A-Z
Paleontology
Geographical divisions (General and zoological) -- Continued

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)
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
Paleozoology
Invertebrates
Echinodermata
Other divisions, A-Z -- Continued
783.D5  Diploporeta
783.E2  Echinoidea
783.E3  Edrioasteroidea
783.H7  Holothuroidea
783.O6  Ophiuroidea
783.P3  Paracrinoida
783.S8  Stelleroida
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  Deliasmatidae
797.D6  Discinidae
797.I5  Inarticulata
797.K5  Kingiidae
797.L7  Lingulidae
797.O2  Obolidae
797.O7  Orthida
797.O75  Orthidae
797.P3  Paterinidae
797.P39  Pentamerida
797.P4  Pentameridae
797.P5  Playstrophinae
797.P9  Productidae
797.R5  Rhyynchonellida
797.S4  Septirynchiiidae
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.C5  Cheilostomata
799.C7  Cryptostomata
799.C8  Ctenostomata
799.C9  Cyclostomata
799.E95  Expletocystida
799.G95  Gymnolaemata
799.M6  Monticuliporidae
Paleozoology
Invertebrates
Bryozoa. Polyzoa
Systematic divisions, A-Z -- Continued

799.S74
Stenolaemata
799.T7
Trepostomata

Mollusca

801
General works, treatises, and textbooks
805

Cephalopoda

806
General works, treatises, and textbooks
807.A-Z
Systematic divisions, A-Z
807.A25
Actinoceratidae
807.A5
Ammonoidea
807.B4
Belenoceridae
807.C65
Clymeniida
807.C7
Coleoidea
807.D5
Dibranchiata
Endoceratoidea see QE807.H4
807.E4
Ellesmeroceratidae
807.E5
Endoceratoidea
807.G56
Goniatitidae
807.H4
Hebetoceratidae
807.L3
Lamellorthoceratidae
807.L7
Liparoceratidae
807.L98
Lytoceratidae
807.N4
Nautiloidea
807.O8
Orthoceratidae
807.P69
Placenticeratidae
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
Acteonidae
809.A72
Archaeogastropoda
809.B8
Buccinidae
809.C4
Ceratopeidae
809.C48
Columbellidae
809.C52
Conidae
809.C9
Cypraeidae
809.E55
Eotomariidae
809.E64
Epitoniidae
809.E9
Euomphalidae
809.F3
Fasciolarididae
809.L57
Littorinimorpha
809.M25
Macluritidae
809.M4
Mesogastropoda
809.M8
Murchisoniidae
809.M85
Muriceidae
809.N3
Nassariidae
809.N32
Naticidae
809.N45
Neritidae
809.O44
Olividae
Paleozoology
Invertebrates
Mollusca
Gastropoda

Systematic divisions, A-Z -- Continued

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
Valencienniiidae
809.V3
Vasidae
809.V7
Volutidae
809.Z9
Zonitidae

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
Cypricardiacea see QE812.T34
812.D5
Diceratidae
812.D7
Dreissenidae
812.G7
Grammysiidae
812.G78
Gryphaeidae
812.H34
Halobiidae
812.H57
Hippuritidae
812.H573
Hippuritoidea (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
Paleozoology
Invertebrates
Mollusca
Bivalvia. Lamellibranchia. Pelecypoda
Systematic divisions, A-Z -- Continued

(812.R8)
Rudista
see QE812.H573

812.S6
Solemyidae

812.S62
Solemyoida

812.T3
Tancrediiidae

812.T34
Teleodesmacea

812.T37
Tellinidae

812.T4
Teredinidae

(812.T7)
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

Proarthropoda. 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
Proetiida
823.P76
Proetiidae
823.P79
Ptychopariida
823.R4
Redlichida
823.T2
Tardigrada

Chelicerata. Merostomata. Arachnida
Paleozoology
Invertebrates
  Arthropoda
    Chelicerata. Merostomata. Arachnida -- Continued
    General works, treatises, and textbooks
782
782.A-Z
    Systematic divisions, A-Z
782.A2
    Acarina (Acari)
782.A6
    Araneida (Araneae)
782.C5
    Chernetidae (Pseudoscorpiones)
782.E8
    Eurypterida
782.O63
    Opiliones
782.P3
    Pedipalpi
782.P5
    Phalangida
    see QE826.O63
782.S4
    Scorpionida
782.S6
    Solifugae
782.X5
    Xiphosurida

Myriapoda
782
    General works, treatises, and textbooks
782.A-Z
    Systematic divisions, A-Z
782.C5
    Chilopoda
782.D5
    Diplopoda

Hexapoda. Insects
783
    General works, treatises, and textbooks
783.A-Z
    Systematic divisions, A-Z
783.A53
    Anisoptera (Dragonflies)
783.A55
    Anoplura
783.B55
    Blattaria (Cockroaches)
783.C6
    Coleoptera (Beetles)
783.C63
    Collembola (Springtails)
783.D47
    Dermaptera (Earwigs)
783.D6
    Diptera (Flies, midges, mosquitoes)
783.E52
    Embioptera
783.E65
    Ephemeroptera (Mayflies)
783.H4
    Hemiptera (True bugs)
783.H65
    Homoptera
783.H9
    Hymenoptera (Ants, bees, wasps)
783.I8
    Isoptera (Termites)
783.L5
    Lepidoptera (Butterflies and moths)
783.M34
    Mallophaga (Biting lice)
783.M43
    Mecoptera (Scorpionflies)
783.N5
    Neuroptera
783.O36
    Odonata
783.O7
    Orthoptera
783.P45
    Phasmatoptera (Stick insects)
783.P55
    Plecoptera (Stoneflies)
783.P83
    Pscoptera (Book lice)
783.S47
    Siphonaptera (Fleas)
783.S87
    Strepsiptera
783.T5
    Thysanoptera (Thrips)
783.T8
    Trichoptera (Caddisflies)

Chordata
7840.5
    Vertebrates
7841
    General works, treatises, and textbooks
7842
    Juvenile works
Paleozoology
Chordata
Vertebrates -- Continued

845 Fossil footprints
846 Fossil teeth
847 Amniotes
Fishes
851 General works, treatises, and textbooks
851.2 Ichthyoliths
852.A25 Acipenseriformes
852.A33 Agnatha
852.A4 Amiiformes
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
852.G37 Gasterosteiformes
852.G65 Gonorynchiformes
852.H37 Heterodontidae
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 Pterygolepiformes
852.P9 Pycnodontiformes
852.R35 Rajiformes
852.R4 Redfieldiiformes
852.S2 Salmoniformes
852.S4 Semionotiformes
Paleozoology
Chordata
Vertebrates
Fishes
Systematic divisions, A-Z -- Continued

(852.T2)
Teleostei
see QE852.O45

852.T48
Tetraodontiformes

853
Fossil otoliths

Reptiles
861
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
861.6.F45
Flight
861.6.T72
Tracks
By region or country
United States

861.7
General works
861.8.A-Z
By region or state, A-Z
Subarrange each state by Table Q4
861.9.A-Z
Other regions or countries, A-Z
Subarrange each country by Table Q4

861.95
Miscellany and curiosa
862.A-Z
Other systematic divisions, A-Z
862.C36
Captorhinidae
862.C5
Chelonia. Testudinata
862.C7
Cotylosauria
862.C8
Crocodylia
(862.D4)
Dicynodontia
see QE862.T5

(862.D5)
Dinosaurs
see QE861.2+
862.E9
Eunotosauridae
862.I2
Ichthyosauria
862.L2
Lacertilia
862.N7
Nothosauria
862.O6
Ophidia. Serpentes
862.O65
Ornithischia
Ornithosauria see QE862.P7
862.P3
Pelycosauria
862.P35
Phytosauria
862.P37
Placodontia
862.P4
Plesiosauria
862.P7
Pterosauria
Pythonomorpha see QE862.L2
Paleozoology

Chordata
Vertebrates
Reptiles

Systematic divisions, A-Z -- Continued

862.R5 Rhynchocephalia
862.S3 Saurischia
862.S33 Sauropterygia
862.S65 Squamata

Cf. QE862.L2 Lacertilia
Cf. QE862.O6 Ophidia

(862.S8) Synapsida

see QE861

862.T4 Thalattosaurus
862.T47 Thecodontia
862.T5 Therapsida

Amphibians. Batrachia

867 General works, treatises, and textbooks
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 Archaeornithes (Sauriurae)

Ardeiformes

see QE872.C53

872.C3 Casuariiformes
872.C53 Ciconiiformes

Coccycyes see QE872.C9

872.C65 Coliiformes
872.C7 Columbidae
872.C75 Columbidae (Gaviidae)
872.C77 Confuciusornithiformes
872.C8 Coraciiformes
872.C9 Cuculiformes
872.D5 Dinornithiformes
Paleozoology
Chordata
Vertebrates
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   Piciiformes
872.P6   Podargidae
872.P65  Prophaethontiformes
872.P7   Psitaciformes
872.P8   Pteroclidae
            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.C15  Carnivora
882.C5   Cetacea
882.C8   Chiroptera
882.C84  Cimolesta
882.C9   Creodontia
882.D4   Deltatheridia
882.D45  Desmostylia
882.D6   Docodonta
882.E2   Edentata. Xenarthra
882.E75  Erinaceomorpha
            Cf. QE882.I5 Insectivores
            Eulipotyphla see QE882.S67
882.E86  Eupantotheria
882.H47  Herbivora
882.I5   Insectivores
            Cf. QE882.E75 Erinaceomorpha
            Cf. QE882.S67 Soricomorpha
882.L3   Lagomorpha
882.M25  Macroscelidea
Paleozoology
  Chordata
  Vertebrates
  Mammals
  Systematic divisions, A-Z -- Continued
  Marsupialia
  882.M3  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, Eulipotyphla
    Cf. QE882.I5 Insectivores
  882.T34  Taeniodonta
  (882.T49)  Theria
    see QE881
  (882.T5)  Tillodontia
    see QE882.C84
  882.T8  Tubulidentata
  882.U2  General works
  882.U3  Artiodactyla
  882.U6  Perissodactyla
  882.U8  Other
    e.g. Dinocerata, Toxodontia
  899  Fossils of doubtful affinity or origin
  899.2.A-Z  General works
  899.2.A37  Special groups, A-Z
  899.2.C65  Acritarchs
  899.2.C67  Conodonts
  899.2.D32  Coprolites
  899.2.T45  Dacrycoconarida
  899.2.T45  Tentaculitida

Paleobotany
  901  Periodicals, societies, congresses, serial publications
  903  Nomenclature, terminology, notation, abbreviations
  History
  904.A1  General works
  904.A2-Z  By region or country, A-Z
Paleobotany -- Continued

Biography

904.5
  Collective
    Including directories
904.52.A-Z
  Individual, A-Z
    e.g.
904.52.S4
  Seward, Sir Albert Charles, 1863-1941
905
  General works, treatises, and textbooks
906
  Juvenile works
907
  Pictorial works and atlases

Museums. Exhibitions

908.A1
  General works
908.A2-Z
  By region or country, A-Z
    Subarrange each country by Table Q5
909
  Study and teaching. Research
911
  Addresses, essays, lectures

Stratigraphic divisions

Precambrian
  General works
914
  Proterozoic
  General works
914.5
  Paleozoic
  General works
915
  Cambrian
916
  Ordovician
917
  Silurian
918
  Devonian
  Carboniferous
    General works
919
    Mississippian
919.3
    Pennsylvanian
920
    Permian
  Mesozoic
  General works
921
  Triassic
922
  Jurassic
923
  Cretaceous
  Cenozoic
  General works
924
  Tertiary
  General works
925
  Paleogene
    General works
926
    Paleocene
926.5
    Eocene
927
    Oligocene
928
    Neogene
928.5
    General works
929
    Miocene
930
    Pliocene
  Quaternary
    General works
931
    Pleistocene
931.2
    Holocene, Recent
931.3
  Amber flora

Geographical divisions
  Prefer the stratigraphic divisions
Paleobotany
Geographical divisions -- Continued

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
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

Fungi
958
Bryophyta (Liverworts and mosses)
959
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
Protolepidodendrales, Lepidodendrales, Pleuromeiales, Isoetales, Lycopodiales,
Selaginellales
Gymnosperms. Pinophyta

975
General works
Cycadophyta

976
Cycadales
976.2
Cycadeoidales
976.3
Pteridospermales
Coniferophyta

977
General works
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
15
   History
   General works
21.A-Z
   By region or country, A-Z
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
43
   Works of Linnaeus (General)
   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
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
Study and teaching. Research. Nature study -- Continued

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.


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

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.R46
Remote sensing

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
Physiographic divisions
Land
     For biology of a particular place see QH101+
     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
Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology -- Continued

90.35
Directories

90.45
Aquatic biology as a profession. Vocational guidance

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

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

91.2
Dictionaries and encyclopedias
Geographical distribution. Biogeography. Phylogeography
Physiographic divisions
Water. Aquatic biology
Marine biology -- Continued
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
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+
Geographical distribution. Biogeography. Phylogeography
Physiographic divisions
Water. Aquatic biology
Marine biology
Special topics, A-Z -- Continued

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
92.2
General works
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
Geographical distribution. Biogeography. Phylogeography

Physiographic divisions

Water. Aquatic biology

Marine biology

By region

Atlantic Ocean

South Atlantic Ocean -- Continued

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

Coast of Asia

95.2

General works

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
Geographical distribution. Biogeography. Phylogeography
Physiographic divisions
Water. Aquatic biology

Freshwater biology. Limnology -- Continued

96.A4  Collected works (nonserial)
96.A5-Z General works, treatises, and textbooks
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
96.8.A-Z Special topics, A-Z
96.8.B4 Benthos
Biodiversity see QH96.8.B53
96.8.B5 Biological assay. Biological assessment
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

225
Geographical distribution. Biogeography. Phylogeography
Physiographic divisions
Water. Aquatic biology
Freshwater biology. Limnology
Special topics, A-Z -- Continued
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
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.)
104.5.E37
East
104.5.E73
Erie, Lake
104.5.F76
Front Range (Colo. and Wyo.)
104.5.G68
Great Basin
104.5.G7
Great Lakes
104.5.G73
Great Plains
104.5.G84
Great Smoky Mountains see QH105.N8
104.5.H53
Gulf Coast
104.5.H83
High Plains
104.5.H83
Hudson River
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

North America

United States

By region, A-Z -- Continued

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.L66  Long Island Sound (N.Y. and Conn.)
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
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.

105.N8  Hawaii see QH198.H3

105.V8  North Carolina

Including Great Smoky Mountains

105.V8  Virginia

Including Dismal Swamp
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

North America -- Continued

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

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
Antigue 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

109.S22
Saba

109.S24
Saint Kitts and Nevis

109.S25
Saint Lucia

109.S28
Saint Vincent and the Grenadines
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

Latin America

West Indies. Caribbean Area

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

109.S55
Sint Eustatius

109.S56
Sint Maarten

108.T8
Trinidad and Tobago

109.T82
Turks and Caicos Islands

109.V55
Virgin Islands

West Indies, French see QH109.F74

110
Bermuda

South America

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

General works

125
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

General works

By island or group of islands, A-Z

132.A1
Azores

Bermuda see QH110

132.B68
Bouvet Island

Cabo Verde see QH132.C33

132.C3
Canary Islands

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

General works

By region or country
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Europe

By region or country -- Continued

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

161
  Russia. Soviet Union. Russia (Federation)
    General works
    Russia in Asia see QH191

161.5
  Belarus

161.6
  Moldova

161.7
  Ukraine

162
  Poland

164
  Scandinavia (General)

165
  Denmark
    Faroe Islands see QH132.F37

166
  Iceland

168
  Norway

169
  Sweden

171
  Spain
    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
Geographical distribution. Biogeography. Phylogeography
Topographical divisions

Europe
By region or country
Other European regions or countries, A-Z -- Continued

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
178.L5 Lithuania
(178.M23) Macedonia (Republic)
see QH178.N64
Mediterranean Region see QH150
178.N64 North Macedonia
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
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Asia
By region or country -- Continued
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
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
193.C16
Cambodia
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.I5)
Indonesia
See QH186
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
Geographical distribution. Biogeography. Phylogeography
Topographical divisions

Asia

By region or country

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

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

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.T56
Timor-Leste

193.U5
United Arab Emirates

(193.V53)
Vietnam

see QH184.6

193.Y4
Yemen

Africa

General works

194
By region or country, A-Z

195.A-Z

Africa, Central see QH195.C37

195.A23
Africa, East

195.A233
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

195.G34
Gambia
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Africa

By region or country, A-Z -- Continued

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.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
195.U4  Uganda
    United Arab Republic see QH195.E4
195.V5  Victoria, Lake
195.W46  West Africa
195.Z3  Zambia
195.Z55  Zimbabwe
    Indian Ocean islands
    General works
196.A1  By island or group of islands, A-Z
196.A2-Z  Aldabra Islands
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Indian Ocean islands
   By island or group of islands, A-Z -- Continued
196.C53  Chagos Islands
196.C55  Christmas Island
196.C62  Cocos (Keeling) Islands
196.C64  Comoros
196.H43  Heard Island
196.K3  Kerguelen
   Madagascar see QH195.M2
196.M35  Marion Island
196.M38  Mauritius
      Including Rodrigues
196.M39  Mayotte
196.R4  Réunion
      Rodrigues see QH196.M38
196.S2  Saint Paul
196.S4  Seychelles
Australasia
196.8  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
198.A1  General works
198.A2-Z  By island or group of islands, A-Z
198.A44  American Samoa
198.B5  Bismarck Archipelago
198.C3  Campbell Island
198.C65  Cook Islands
198.E53  Enewetak Atoll
198.F3  Fanning Island
198.F55  Fiji
198.F74  French Polynesia
198.G3  Galapagos Islands
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
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Australasia

Pacific Area. Pacific islands

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

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

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
Microscopy
Microscopes
Special microscopes, A-Z -- Continued
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
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
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
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
Through 1969

308
1970-
Elementary
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.C44
Chemical biology

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
Study and teaching. Research -- Continued

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

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
Methods of research. Technique
Other special, A-Z -- Continued

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.Q35 Quantitative 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
332.5 Feminist bioethics
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
Evolution
Works of Darwin
Separate works, A-Z
  On the origin of species
    Translations -- Continued
  Romanian
  Russian
  Spanish
  Criticism and reviews
    The variation of animals and plants under domestication
Translations
  Editions. By date
  Selections. By editor
  Arrive alphabetically by language, then Cutter for translator
  Translations
    Selections from more than one work. By editor
General works, treatises, and textbooks
1861-1969
1970-
Popular works
Juvenile works
Critical works
Class here works that argue against the theory of evolution
Cf. BL263 Religion and science
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
Human evolution
  see GN281+
Plant evolution (General)
  see QK980
Miscellany and curiosities
  Special aspects of the subject as a whole
  see QH371.3.A+
  Special aspects of the subject as a whole, A-Z
  Mathematical models
Macroevolution
Coevolution
Homoplasy
Convergence
Natural selection
Group selection
Symbiogenesis
Speciation
Mutation in evolution. Evolutionary genetics
Heterochrony
Punctuated equilibrium
Variation
General works
Statistical methods
  see QH323.5
Plants
  see QK983
Animals
Phenetics
Clines
Evolution
Variation -- Continued
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. CS21.3 Genetic genealogy
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
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
Sociogenomics see QH457.5
Genetics -- Continued

Vocational guidance
Study and teaching. Research

General works

Outlines, syllabi

Problems, exercises, examinations

Experiments

Laboratory manuals

Laboratories

General works

By region or country, A-Z

Subarrange each country by Table Q6

Technique

Data processing

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

General works

Cloning

Gene targeting

Gene libraries

Transgenic organisms. Transgenic animals

Recombination mechanisms

General works

Segregation. Assortment

Crossing over

General works

Linkage and genetic mapping

General works

Sex linkage

Mosaicism

Genes. Alleles. Genome

Cf. QP98 Blood groups

General works

Dominance and recessiveness

Conversion

Polymorphisms

General works

Special polymorphisms, A-Z

Fibrinogen polymorphisms

Hemoglobin polymorphisms

Single nucleotide polymorphisms

Lethal factors see QH463.5

Individual genes and genetic elements, A-Z

Actin genes

Beta-glucuronidase genes

Homeobox genes

Ir genes see QR184.4

Offactory receptor genes

Oncogenes see RC268.42

Reporter genes

Selfish genetic elements
BIOLOGY (GENERAL)

Genetics
Recombination mechanisms -- Continued
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.I48 Insertion elements, DNA

452.3
General works
452.5
Episomes
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

457.5
Sociogenomics

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
Genetics
Mutations
Gene mutation -- Continued
463.13.A-Z  By type, A-Z
463.13.I57  Insertional mutagenesis
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)
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. QK640 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
507
Homeostasis see QP90.4
508
Information theory in biology
509
Biological control systems
509.5
Biomagnetism
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 Photobiocchemistry
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
530 Life -- Continued
   Death
      Cf. QH671 Cell death
      Cf. QP87 Animal death

530.5 Biodegradation
      Cf. QP517.B5 Animals
      Cf. QR135+ Microbial degradation

531 Miscellany and curiosas

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

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
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
541.187  Translating
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
Ecology
Study and teaching. Research -- Continued
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+
Abyssal 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
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
Ecology
  By type of environment, A-Z -- Continued

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
541.5.I8   Intertidal zones see QH541.5.S35
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
541.5.M3   Marshes. Wetlands
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
541.5.P47  Permafrost forests
541.5.P6   Polar regions
541.5.P63  Ponds
  Cf. QH541.5.S18 Sagebrush steppes
541.5.R27  Rain forests
541.5.R3   Rangelands
541.5.R4   Reservoirs
541.5.R52  Riparian areas
541.5.R62  Roads. Roadside
541.5.S18  Sagebrush steppes
541.5.S22  Salt lakes
541.5.S24  Salt marshes. Tide marshes
541.5.S26  Sand dunes
541.5.S3   Sea. Marine ecology. Ocean ecology
  Cf. QH541.5.D35 Deep-sea zone
541.5.S35  Seashore. Tidal pools
  Including intertidal zones
541.5.S55  Shrublands
541.5.S7   Snow ecology
541.5.S6   Soil
541.5.S65  Springs
  Cf. QH541.5.H65 Hot springs
541.5.S7  Steppes see QH541.5.P7
Ecology
By type of environment, A-Z -- Continued

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

541.5.T45 Temperate forests

541.5.T53 Tidal flats
  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

541.5.V27 Urban ecology see QH541.5.C6

541.5.V3 Vacant lots

541.5.W3 Water. Aquatic ecology
  Water, Fresh see QH541.5.F7
  Wetlands see QH541.5.M3

541.5.X45 Xeric ecology
(542)

Paleoecology
  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
  Aquatic radioecology

543.58 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
545.A17 Acid precipitation see QH545.A17
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
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
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   Cf. QH545.D75 Drilling platforms

545.O47
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   Cf. QH91.8.O4 Marine biology

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545.O56
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545.O74
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545.O76
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545.O94
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545.R38
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545.R42
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545.R44
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545.R58
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545.R62
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545.S33
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545.S37
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545.S4
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545.S43
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545.S5
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545.S55
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545.S56
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545.S493
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545.S6
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545.S63
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545.S64
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545.S84
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545.S92
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545.T74
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545.T743
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545.T75
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   Including marine pollution
   Cf. QH90.8.T68 Aquatic toxicology

545.W33
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545.W43
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545.W53
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545.X44
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545.Z56
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546
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   Including protective mechanisms, mimicry
   Cf. QK912+ Plant adaptation
   Cf. QH543.2 Acclimatization

546.3
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547
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548
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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
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585.5.L37
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585.5.M52
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585.5.M53
Microspectrophotometry

585.5.N82
Nuclear magnetic resonance spectroscopy

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585.5.S83
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588.A-Z
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596
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597
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599
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Cf. QH462.A1+ Chromosomal mutation

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600.15
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600.2
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600.3
Telomere

600.5
Sex chromosomes

600.6
Giant chromosomes. Lampbrush chromosomes

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601
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601.15
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601.2
Nuclear membranes

602
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603.A-Z
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603.C43
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603.C63
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603.C95
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603.C96
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603.E6
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603.E63
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603.E93
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603.G55
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603.G6
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603.I49
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603.I54
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603.L9
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603.M35
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603.M4
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603.M44
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603.M5
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  Other special, A-Z -- Continued
  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
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
  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
Cytology

Effect of physical and chemical agents on cells -- Continued

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
2. Collected works (nonserial)
3. Voyages and expeditions
4. Encyclopedias
5. Dictionaries
6. Communication of information
7. General works
8. Information services
9. Computer network resources
   - Including the Internet
10. Terminology, notation, abbreviations
   - Cf. QK96 Nomenclature
11. Indexes of plants
12. Popular names
13. Botanical literature
   - Including works on herbals
14. History
   - General works
15. Biography
   - By region or country, A-Z
16. Collective
17. Individual, A-Z
   - e. g.
18. Gray
19. Torrey
20. Directories
21. General works and treatises
   - Cf. QK91 Works of Linnaeus (Botany only)
22. Early through 1753
23. 1754-1969
24. 1970-
25. Special aspects of the subject as a whole
26. Special topics, A-Z
27. Aerial photography
28. Botanizers
29. Botany for gardeners see QK50
30. Diversity, Plant (General)
   - Including centers of plant diversity
   - For plant diversity conservation see QK86+
   - For local see QK102+
31. Electronic data processing
32. Forensic botany
33. Human-plant relationships
34. Mathematical models
35. Statistical methods
36. Vegetation monitoring
   - For local see QK108+
37. Textbooks
38. Handbooks, tables, formulas, etc.
39. Juvenile works
40. Popular works
   - For plants of individual regions or countries see QK108+
41. Botany as a profession. Vocational guidance
42. Study and teaching. Research
43. General works
Study and teaching. Research -- Continued

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+ Arborets
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
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
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98.15  General works
98.16.A-Z  By region or country, A-Z
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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
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  Cf. SB617+ Poisonous plants as pests
100.A1 General works, treatises, and textbooks
100.A5-Z By region or country, A-Z
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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)
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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
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    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
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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

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

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215 General works
216 Belize
217 Costa Rica
218 Guatemala
219 Honduras
220 Nicaragua
221 Panama
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West Indies, Caribbean area

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226 Bahamas
227 Cuba

Hispaniola

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
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231.A78 Aruba
231.B3 Barbados

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231.C35 Cayman Islands
231.C87 Curaçao
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231.S33
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231.S34
Saint Lucia

231.S35
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231.S38
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231.T87
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Canary Islands see QK422

275.C4
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Falkland Islands see QK274

275.F37
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275.M3
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275.S27
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<td>Dioscoreaceae (Yam)</td>
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<td>495.D545</td>
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<td>495.D56</td>
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<td>495.D67</td>
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<td>495.D76</td>
<td>Droseraceae (Sundew)</td>
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<td>495.D9</td>
<td>Dubekeodendraceae</td>
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<td>495.D95</td>
<td>Dysphaniaceae</td>
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<td>495.E25</td>
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<td>495.E33</td>
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<td>495.E35</td>
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<td>495.E37</td>
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<td>495.E44</td>
<td>Empetraceae (Crowberry)</td>
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<td>495.E45</td>
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<td>495.E64</td>
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<td>495.E68</td>
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625.T8 Tuberculariae
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626.3 General works, treatises, and textbooks
626.5 Septobasidiales. Septobasidiaceae
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Cf. QK671 Histology
Cf. QK725 Cytology

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642.5 Addresses, essays, lectures

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645 General works

646 General works
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Plant ecophysiology

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For systematic treatment see QK494+
For physiographic treatment see QK930+

Physical plant physiology

Physiology of the vegetative organs (General)
For individual organs and groups of organs see QK644+

Plant cells and tissues

Growth. Development
Including pattern formation
Cf. QK665 Embryology

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Germination

Factors influencing growth

Chemical agents affecting plants
Cf. S631+ Fertilizers
Cf. SB742+ Deficiency diseases
Cf. SD408 Use of fertilizers

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Including nutritive matter, etc.

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Cf. SB744.5+ Plant pathology

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865  General works
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867  General works
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    Including general works on the effects of water levels and floods on plants
    Cf. SB785 Plant pathology

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873  Transpiration. Action of stomata, etc.

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882  Photosynthesis. Assimilation and utilization of carbon dioxide

887  Formation of new organic matter

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Cf. QK882 Photosynthesis
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  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
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   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
   General works
9.2
   Information services
9.3
   Computer network resources
   Including the Internet
9.4

Classification. Nomenclature see QL351+

10  Terminology, notation, abbreviations
   Cf. QL353+ Nomenclature

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15  General works
21.A-Z  By region or country, A-Z

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26
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      e.g.
      31.A9  Audubon
      31.C9  Cuvier

35  Directories
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   Early through 1759
   1760-1969
   1970-

41  Pictorial works and atlases
46.5  Zoological illustrating

Textbooks
   Advanced
      Through 1969
   1970-
47
      Elementary
      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
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
Study and teaching. Research -- Continued

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
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72 Commercial lists
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73.A1 General works
73.A2-Z By region or country, A-Z
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76 General works
76.5.A-Z By region or country, A-Z
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77.5 Zoo animals
   Cf. SF408+ Culture and care
   Cf. SF995.84+ Veterinary medicine

Public aquariums
   Cf. SF456+ Home aquariums
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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 (Hunting sports). 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
83.4  Wildlife reintroduction
       By region or country
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64  General works
   United States
84.2  General works
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84.5.A3-Z  By region, country, or island, A-Z
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84.6.A3-Z  By region, country, or island, A-Z
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86
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Cf. QL606 Introduced vertebrates
Cf. SB990+ Pest introduction
Cf. SF87 Acclimatization of livestock
87
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Bible zoology see BS663
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Cf. QL81.5+ Endangered animals
Cf. QL676.8 Extinct birds
Cf. QL707 Extinct mammals
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88.3
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88.5
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Alleged animals
Cf. BF1484 Animal ghosts
Cf. GR705+ Animal folklore
Cf. GR825+ Mythical animals
Cf. GR910 Mermaids. Sea monsters
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89.2.C57
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105 Arctic regions
  Including Greenland
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106 Antarctica
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107 Temperate regions
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363.8     Cytology
364       Physiology
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           Including larvae
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364.5     Coloniality. Animal colonies
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      368.A18
        Cnidosporidia
      368.A2
        Ciliophora
      368.A22
        Ciliata (Holotricha; Spirotricha; Peritricha)
        Suctoria 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
Invertebrates
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

368.A335 Acanthophractida
368.A36 Aconchulinida
368.A38 Acrasida
368.A4 Actinomyxida
368.A44 Actinophryida
368.A5 Amoebida
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 Choanofoflagellata. Choanofoflagellida (Choanofoflagellates)
368.C54 Chonotrictida
368.C57 Chrysomonadida
368.C59 Coccidia
368.C6 Coccilithophorida
368.C8 Cryptomonadida
368.O4 Ctenostomatida see QL368.O4
368.D4 Desmothoracida
(368.D6) Dinoflagellida
368.E92 Eugregarinida
368.E95 Eumycetosoida
368.F6 Foraminiferida
368.G8 Gregarinida
368.G85 Gromiida
368.G9 Gymnostomatida
368.H33 Haemopora
368.H34 Haplopora
368.H4 Helicospora
368.H5 Heliozoids
368.H53 Heterochlorida. Xanthomonadida
368.H55 Heterotrichida
368.H87 Hymenostomatida
368.H9 Hypermastigida
368.H95 Hypotrichida
368.K5 Kinetoplastida
368.L3 Labyrinthulida
368.L62 Lobosa
368.M5 Microsporida
368.M78 Mycetozoida
368.M8 Myxosporida
Invertebrates
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

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
Toxoplasmida. 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
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
Invertebrates
Porifera (Sponges)
Geographical distribution -- Continued
372.8 Pacific islands (Table Q3)
372.9 Arctic regions
372.95 Antarctica
372.96 Tropics
   Class here works on species, genera, families and orders
   Calcispongiae (Calcarea)
373.C2 Demospongiae
373.D4 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
   Anthozoa (Corals)
   Alcyonaria
   Zoantharia
   Ctenophora see QL380+
377.C5 General works
377.C6 Alcyonaria
377.C7 Zoantharia
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)
Invertebrates
Ctenophora

Geographical distribution -- Continued
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

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
            Class works on species, genera, and orders by class
384.A8  Asteroidea (Starfishes)
384.C8  Crinoidea
384.E2  Echinoidea (Sea urchins)
384.H7  Holothuroidea (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
Invertebrates
Worms and other vermiform invertebrates -- Continued

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

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

391.G63
Gnathostomulida
Hirudinea see QL391.A6

391.K5
Kinorhyncha (Echinodera)

391.L67
Loricifera

391.M4
Mesozoa
Including Orthonectida and Rhombozoa

391.N4
Nematoda (Roundworms)

391.N5
Nematomorpha (Gordiacea; horsehair worms)

391.N6
Nemertina (Rynchocoela; ribbonworms)
Oligochaeta see QL391.A6

391.P5
Phoronida

391.P7
Platyhelminthes (Flatworms)
(391.P85)
Pogonophora
see QL391.A6
Polychaeta see QL391.A6

391.P93
Priapulida
Rhombozoa see QL391.M4

391.R8
Rotifera

391.S5
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
Invertebrates -- Continued

Brachiopoda (Lamp shells)

395
  General works, treatises, and textbooks
395.1
  Classification
395.15
  Catalogs and collectors

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; Polzyoa)

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

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+
Invertebrates
Bryozoa (Ectoprocta; Polyzoa)

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

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

405.4
Rare and endangered species

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

406
Classification

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
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
Invertebrates
Mollusca

Geographical distribution
Physiographic divisions
Marine -- Continued

408.7
Indian Ocean

Topographical divisions
North America

411
General works
413
Canada
414
United States
415.A-Z
General works
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)
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
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
Invertebrates
Mollusca
   Systematic divisions
   Cephalopoda
      By family, A-Z -- Continued

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
   Abalones see QL430.5.H34
430.5.A18  Abyssochrysidae
430.5.A2   Achatinellidae
430.5.A22  Achatinidae
430.5.A23  Aciculidae
430.5.A24  Acclididae
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  Ampullariiidae
430.5.A63  Ancylidae
430.5.A65  Annulariidae
430.5.A66  Aplysiidae
430.5.A69  Architectonicidae
430.5.A7  Arionidae
430.5.A74  Arminidae
430.5.A78  Athoracophoridae (Leaf-veined slugs)
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.B87  Busyconidae
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
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.C43  Cerithiopsidae
430.5.C49  Chilinidae
(430.5.C53)  Chondropomatidae
           see QL430.5.A65
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
(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  Elysidae
430.5.E5   Endodontidae
(430.5.E55)  Entoconchidae
           see QL430.5.E9
430.5.E6   Epitonidae
430.5.E9   Eulimidae
430.5.F2   Fasciolariidae
430.5.F53  Ficidae
430.5.F57  Fissurellidae
430.5.F58  Flabellinidae
430.5.G34  Gadiiniidae
430.5.H34  Haliotidae (Abalones)
430.5.H37  Helicarionidae
430.5.H4   Helicidae
430.5.H45  Helicinidae
430.5.H46  Helminthoglyptidae
           Hermaeidae see QL430.5.S75
430.5.H9   Hydrobiidae
430.5.J3   Janellidae
(430.5.J36)  Janthininidae
           see QL430.5.E6
430.5.J8   Juliidae
430.5.K46  Kentrodorididae
(430.5.L2)  Lamellaridae
           see QL430.5.V385
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
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued
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
430.5.N47  Neocyclotidae
430.5.N5   Neritidae
430.5.O5   Olividae
430.5.O73  Oreohelicidae
430.5.O78  Orthalicaidae
430.5.P15  Partulidae
430.5.P18  Patellidae
430.5.P2   Personidae
430.5.P23  Phasianellidae
430.5.P25  Philomyidae
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  Pomatiidae
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
Stiliferidae see QL430.5.E9

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
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.T45
  Thiaridae
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.V385
  Velutinidae
430.5.V4
  Veronicellidae
(430.5.V65)
  Vitronellidae
    see QL430.5.T65
430.5.V7
  Viviparidae
430.5.V75
  Volutidae
430.5.V77
  Volutomitridae
430.5.X46
  Xenophoridae
430.5.Z6
  Zonitidae

Bivalvia (Lamellibranchia; pelecypoda; clams)
General works and orders
By family, A-Z
430.6
430.7.A-Z
430.7.A34
  Amblemidae
430.7.A4
  Anatiniidae
430.7.A72
  Arcidae
430.7.A74
  Articidae
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
  Donaciidae
430.7.D8
  Dreisseniidae
430.7.G23
  Gastrochaenidae
430.7.G55
  Glossidae
430.7.G78
  Gryphaeidae
430.7.H53
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430.7.H87
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523.A5   Anthocoridae (Flowerbugs)
523.A7   Aradidae (Flatbugs)
523.B4   Belostomatidae (Giant waterbugs)
523.B45  Berytidae
523.C6   Capsidae see QL523.M5
523.C64  Cimicidae (Bedbugs, etc.)
523.C67  Coreidae
523.C7   Corimelaidae
523.C75  Corixidae (Water boatmen)
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523.D74
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523.D9
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523.E65
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523.G4
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523.H4
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523.H44
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523.H93
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523.H96
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523.I83
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523.L58
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523.M5
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523.P55
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      Aleurodidae see QL527.A5
      527.A5 Aleyrodidae (Whiteflies)
      527.A64 Aphididae (Aphids or plant lice)
      527.A647 Aphrophoridae
      527.A65 Apiomorphidae
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      527.A8 Asterolecaniidae (Pit scales)
      527.B9 Bythoscoptidae
      527.C35 Callaphididae
      527.C4 Cercopidae (Spittlebugs)
      527.C43 Cercococcidae
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      527.C49 Cricadellidae (Leafhoppers)
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527.K44   Kerridae (Lac scales)
527.K5    Kinnaridae
527.K6    Koebeliidae
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527.L6    Lophopidae
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527.M32   Macropsidae
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527.M4    Meenoplidae
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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
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527.R5    Ricaniidae
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  Nemouridae
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  Perlidae
  Perlodidae
  Pteronarcyidae
  Taeniopterygidae
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  Physiology

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537.A45
    Allactoneuridae
537.A5
    Anthomyiidae
537.A53
    Anthomyzidae
537.A6
    Apioceridae
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
    Ceroplatididae
537.C4
    Chamaemyiidae
537.C43
    Chaoboridae (Phantom midges)
537.C455
    Chiromyzidae
537.C456
    Chironomidae (Tendipedidae; midges)
537.C46
    Chloropidae
537.C49
    Chyromyiidae
537.C5
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#### Diptera (Flies)

**Systematic divisions. By family**

**Other families, A-Z -- Continued**

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537.M98  Mythicomyiidae
537.N44  Nemestrinidae
537.N46  Neottiophilidae
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537.N6   Nothylidae
537.N9   Nycteribiidae
537.N94  Nymphomyiidae
537.O3   Odiiniidae
537.O4   Oestridae (Botflies; warbleflies)
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537.P97  Pygopterae
537.R4   Rhagionidae (Snipeflies)
537.R457 Rhinophoridae
537.R458 Rhinoteridae
537.R46  Rhopalomeridae
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537.S32  Scatopsidae
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  540
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Lepidoptera (Butterflies; moths)
Periodicals, societies, congresses, serial publications
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Pictorial works and atlases
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Juvenile works
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<td>(561.E9)</td>
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see QL561.L54

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<td>561.G3</td>
<td>Galleriidae  (Wax moths)</td>
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            568.A344
               Alyssonidae
            568.A36
               Ampulicidae
            568.A38
               Anacharitidae
            568.A4
               Andrenidae
            568.A48
               Anthoboscidae
            568.A53
               Anthophoridae
            568.A55
               Aphelinidae
            568.A57
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            568.A77
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            568.C373
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568.P9
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568.P94
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596.A3 Aderidae
596.A37 Aegialitidae
596.A4 Aglycyderidae
596.A42 Alleculidae
596.A43 Alticidae
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596.A5 Anobiidae
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596.A63 Anthribidae (Fungus weevils)
596.A64 Aphodiiidae
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596.C48 Chlamidiidae
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596.C77  Cryptocephalidae
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596.C8  Cucujidae (Flat-bark beetles)
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596.D57  Diphyllidae
596.D58  Discolomidae
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596.D6  Donaciidae
596.D67  Drilidae
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596.D85  Dynastidae
596.D9  Dytiscidae (Predaceous diving beetles)
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596.E38  Elacatidae
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596.E45  Elmidae
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596.E87  Eurystethidae
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596.L29
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596.L35
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596.L4
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596.L43
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596.L92
  Lyctidae (Powderpost beetles)
596.L94
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596.M2
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596.M3
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596.M34
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596.P98  Phthidae
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596.R485  Rhipiphoridae
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  605.A2 Collected works (nonserial)
  605.A3-Z General works, treatises, and textbooks
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          606.592 Bering Land Bridge Region. Beringia
          606.594 Greenland
          606.597 Antarctica
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        607 Classification
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          Protochordata
            610 General works
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Cf. SH1+ Fish culture, fisheries, angling
614 Periodicals, societies, congresses, serial publications
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614.7 Dictionaries and encyclopedias
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614.73 General works
614.74 Information services
614.75 Computer network resources
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614.8 General works
614.83.A-Z By region or country, A-Z
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614.9 Directories
615 General works, treatises, and textbooks
616 Pictorial works and atlases
617 Popular works
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617.73.A-Z By region or country, A-Z
618 Classification. Nomenclature
618.15 Catalogs and collections
618.2 Evolution. Speciation
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618.5 General works
618.55 Fish watching
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618.6 Collection and preservation. Fish mounting
  Cf. SH338+ Fisheries museums and exhibitions
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  Cf. QL637.2 Antarctic Ocean
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  621.5  General works
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  621.54  Newfoundland Banks
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638.S34
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638.S347
Scomberesocidae (Sauries)

638.S35
Scombridae (Tuna; mackerel)

638.S374
Scopelarchidae (Pearleyes)

638.S38
Scopelosauridae see QL638.N5873

638.S38
Scophthalmidae

638.S42
Scorpaenidae (Scorpionfishes)

638.S45
Scytalinidae (Graveldivers)

638.S47
Searsidae (Tubeshoulders)

638.S48
Serranidae (Sea basses)

638.S483
Serrasalmidae

638.S485
Serrivomeridae

638.S5
Siganidae

638.S54
Silaginidae

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
Sphyraenidae (Barracudas)

638.S785
Stephanoberycidae

638.S8
Sternopythidae

638.S83
Sternopygidae (Glass knifefishes)

638.S84
Stichaeidae (Picklebacks)

638.S86
Stomatidae

638.S87
Stromateidae (Butterfishes)

638.S88
Stylephoridae (Tube-eyes)

638.S892
Synancejidae see QL638.S42

638.S892
Synaphobranchidae

638.S893
Synbranchidae

638.S9
Syngnathidae (Pipefishes; seahorses)
Chordates. Vertebrates
Fishes
Systematic divisions
Osteichthys (Bony fishes). By family, A-Z -- Continued

638. S96
Synodontidae (Lizardfishes)
638. T27
Teraponidae
Tetragonopteridae see QL638.C5
638. T3
Tetragonuridae
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
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
Cephalaspidomorophi
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
Chordates. Vertebrates
  Fishes
  Systematic divisions -- Continued
  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+
  Chondrichthyes (Cartilaginous fishes)
  638.6  General works
          Chimaeriformes
  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)
  638.85.R48  Rhinopteridae see QL638.85.M9
  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
  638.94.L36  Lamniformes
  638.94.O74  Orectolobiformes (Carpet sharks)
  Pristiophoriformes see QL638.95.P7
Chordates. Vertebrates
Fishes
Systematic divisions
Chondrichthyes (Cartilaginous fishes)
Sharks
Systematic divisions
By order, A-Z -- Continued

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)
Carcharididae see QL638.95.O3

638.95.C36
Centrophoridae (Gulper sharks)

638.95.C37
Cetorhinidae (Basking shark)

638.95.C4
Chlamydoselachididae (Frilled sharks)

638.95.D3
Dalatiidiae (Kitefin sharks; sleeper sharks)
Echinorhinidiae see QL638.95.S84

638.95.E85
Etmopteridae (Lantern sharks)

638.95.G55
Ginglymostomatidiae (Nurse sharks)

638.95.H4
Heterodontidiae (Bullhead sharks)

638.95.H48
Hexanchidiae (Cow sharks)

638.95.L3
Lamnidae (Mackerel sharks)

638.95.M44
Megachasmidiae (Megamouth shark)

638.95.M58
Mitsukuriniidiae (Goblin shark)

638.95.O3
Odontaspididiae (Sand tigers)

638.95.O7
Orectolobidiae (Wobbegongs)

638.95.P7
Pristiophoridae (Saw sharks)

638.95.P8
Pseudeotriaikidiae (False cat shark)

638.95.R4
Rhincodonidiae (Whale shark)

638.95.S3
Scapanorhyynchidiae

638.95.S38
Scylioridiae (Cat sharks)
Somniosidiae see QL638.95.D3

638.95.S7
Sphyrmidiae (Hammerhead sharks)

638.95.S84
Squalidiae (Dogfish sharks)

638.95.S88
Squatinidiae (Angel sharks)

638.95.S92
Stegostomatidiae (Zebra shark)

638.95.T75
Triakidiae (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+

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
Chordates. Vertebrates
Fishes -- Continued
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
   Evolution
645.2 Catalogs and collections
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
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
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
Chordates. Vertebrates
Reptiles and amphibians
Geographical distribution -- Continued

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
666.C536 Cheloniidae
666.C539 Chelydridae
666.C54 Dermatemydidae
666.C546 Dermochelyidae (Leatherback turtle)
666.C547 Emydidae (Box turtles)
666.C55 Kinosternide
666.C57 Pelomedusidae
666.C584 Testudinidae (Tortoises)
666.C587 Trionychidae (Softshell turtles)
Crocodylia (Crocodilians)

666.C9 General works
666.C925 Crocodylidae (Alligators; crocodiles; caimans; gavial)
   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
   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 Crotaphytidae
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Reptiles
By order and family, A-Z
Squamata

Lacertilia (Sauria; lizards) -- Continued

666.L238
Dibamidae

666.L24
Eublepharidae

666.L243
Feylinidae

666.L245
Gekkonidae (Geckos)

666.L247
Helodermatidae (Gila monsters)

666.L248
Hoplocercidae

666.L25
Iguanidae

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
Atractaspidae (Mole vipers)

666.O63
Boidae (Boas)

666.O633
Bolyeriidae (Round Island boas)

666.O636
Colubridae

Crotalidae see QL666.O69

666.O638
Cylindrophiidae (Asian pipe snakes)

666.O64
Elapidae (Cobras; coral snakes; sea snakes)

(666.O645)
Hydrophiidae

see QL666.O64

666.O647
Lamprophiidae

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)

Squamata see QL666.L19+

Amphibians
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Amphibians -- Continued

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
Rhinatrematidae
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
Craugastoridae
668.E2325
Craugastoridae
668.E233
Dendrobatidae
668.E234
Dicroglossidae
668.E235
Discoglossidae
   see QL668.E214
668.E236
Eleutherodactylidae
668.E237
Hemiphractidae
668.E24
Hylidae (Tree frogs)
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
Pelodytidae
668.E263
Pelodytidae
668.E264
Phrynomeridae
Chordates. Vertebrates
  Reptiles and amphibians
    Systematic divisions
      Amphibians
        By order and family, A-Z
          Ecaudata (Anura; Salientia; frogs; toads) -- Continued
          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
   672.5 Communication of ornithological information
   672.6 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
   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
Chordates. Vertebrates
Birds -- Continued

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.M68
Mountain 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
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+

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. Palaearctic 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)
Chordates. Vertebrates
Birds
Geographical distribution
Topographical divisions
America
Latin America -- Continued
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
693
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+
Alciforines 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
Dromaiidae (Emus)
Charadriiformes
696.C4
General works
696.C42
Alcidae (Auks; auklets; murres)
696.C428
Burhinidae (Thick-knees)
696.C43
Charadriidae (Plovers; turnstones; surfbirds)
Chordates. Vertebrates
  Birds
  Systematic divisions. By order and family, A-Z
  Charadriiformes -- Continued

696.C435  Chionididae (Sheathbills)
696.C44  Dromadidae (Crabplovers)
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 (Herons; 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  Pteroclidae (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)
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(696.C77)  Phoeniculidae (Wood hoopoes)
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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
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
Animal behavior
Special topics -- Continued

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

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

785 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
    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
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
Animal behavior
Stories and anecdotes
Special. By common name of animal, A-Z -- Continued

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     Mongooses
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
795.P43    Peafowl
              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
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
Morphology -- Continued

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

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
Anatomy

Skeleton. Osteology -- Continued

Ligaments

Muscles

For histology see QM571

Vascular system

Blood vessels

Heart

Lymphatics

Respiratory organs

General works

Branchiae (Gills)

Tracheae in Arthropoda

Lungs

Pleura

Diaphragm

Respiratory passages

Larynx

Trachea. Bronchi

Air sacs, swimming bladders, etc.

Digestive organs

General works

Mouth

Teeth

Pharynx. Esophagus. Tonsils

Stomach

Intestines

Peritrophic membranes

Peritoneum. Mesentery and omentum

Glands

Salivary glands

Pancreas

Liver

Ductless glands

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

Urogenital system

General works

Excretory organs

Nephridia

Wolffian body

Kidneys

Ducts

Bladder

Urethra

Reproductive organs. Copulatory organs

Male

Female

Nervous system

For histology see QM575

Periodicals, societies, congresses, serial publications

Collected works (nonserial)

General works, treatises, and textbooks

Laboratory manuals. Neurological technique

Neural elements: Cells, fibers, supporting structures, etc.
Anatomy

Nervous system -- Continued

Central nervous system. Brain
933
General works, treatises, and textbooks
Special types
935
Invertebrate
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
Rhinencephalon
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
943
Skin glands. Odoriferous glands
944
Mammas

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
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
954  Biography
954.2.A-Z  Collective
955  Individual, A-Z
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
991  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
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 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
Nomenclature, terminology, notation, abbreviations

Musculoskeletal system

Skeleton. Osteology
  Cf. RA1059 Forensic osteology

General works

Skull
  Cf. GN71+ Craniology

Vertebral column

Ribs and sternum

Hipbone and pelvis

Bones of the extremities

Articulations. Joints

General works

Ligaments

Articular cartilage

Muscles

General works

Of the head and neck

Of the trunk

Of the limbs

Tendons

Vascular system
  For works on the blood vessels of a particular organ or system, see the organ or system

General works

Heart. Pericardium

Arteries and veins

Lymphatics

Organs of respiration and voice

General works

Larynx
  Cf. QP306 Larynx physiology

Trachea. Bronchi

Lungs. Pleura

Diaphragm

Organs of digestion

General works

Mouth

Teeth

Salivary glands

Pharynx. Esophagus. Tonsils

Stomach

Intestines

Liver

Gallbladder

Pancreas

Peritoneum. Mesentery and omentum

Glands
  Cf. QM325 Salivary glands
  Cf. QM351 Liver
  Cf. QM353 Pancreas

General works, treatises, and textbooks

Ductless glands
  Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid

Urinary and reproductive organs

General works

Kidneys
Urinary and reproductive organs -- Continued
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
   General works
481
   External skin
485
   Bursae mucosae
488
   Hair. Nails
491
   Skin glands
495
   Mammary

Sense organs
   General works
501
   Tongue
503
   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
   General works, treatises, and textbooks
551
   Study and teaching. Research
   General works
552
   Outlines, syllabi
554
   Problems, exercises, examinations
555
   Laboratory manuals
   Laboratory technique
556
   General works
556.5.A-Z
   Special methods, A-Z
Human and comparative histology
  Laboratory technique
    Special methods, A-Z -- Continued
      Embedding, Plastic see QM556.5.P53
  556.5.F5
  556.5.L9
  556.5.P53
  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
  567
    Cartilaginous tissues
  569
    Bony tissues
      Including bone marrow
  569.5
    Hematopoietic system
  570
    Blood vessels
  570.5
    Heart
  570.7
    Lympathics
  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

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)
Phenomena of animal life (General) -- Continued

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

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
Phenomena of animal life (General)
Influence of the environment (General). Animal ecophysiology. Physiological adaptation
Special topics, A-Z -- Continued

82.2.W35
Water immersion
82.2.W36
Water pollution
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
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
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 glucose. 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+
99.3.T72  Trace elements
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
108.5.C4  Cerebral circulation
         Including regional cerebral blood flow
108.5.P45 Peripheral circulation
         Regional cerebral blood flow see QP108.5.C4
109      Vasomoter control. Baroreflexes
110.A-Z  Other special topics, A-Z
110.A37  Adrenergic receptors
110.A7   Artificial circulation
110.B5   Blood volume
Cardiovascular system. Circulation
Other special topics, A-Z -- Continued

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

Study and teaching. Research
112 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
            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
Heart
   Other special topics, A-Z -- Continued
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
Nutrition

Other special topics, A-Z -- Continued

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
   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
Glands -- Continued

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
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 Hypothalomo-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
Secretions -- Continued

190
General works, treatises, and textbooks
Digestive organs and glands secretions

190.7
General works, treatises, and textbooks
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
General works, treatises, and textbooks

220
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
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
Urinary and reproductive organs
Reproduction. Physiology of sex
Female sex physiology -- Continued
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. Genetic sex determination
Cf. QH600.5 Sex chromosomes
Cf. RG566 Determination of sex during pregnancy
278.53 Environmental sex determination
Including temperature-dependent sex determination
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
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
Musculoskeletal system. Movements
Other special movements, A-Z -- Continued
  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
    General works

325
  Face

330
  Spine

Upper extremities
  General works

333
  Hand

Lower extremities
  General works

335
  Foot

336

341
  Electrophysiology
  Cf. QL639.1 Fishes
  Cf. QP372.9 Galvanic skin response
  Cf. QP447.5 Electoreceptors

345
  Magnetic field generation

Neuropysiology and neuropsychology

351
  Periodicals, societies, congresses, serial publications

352
  Collected works (nonserial)

352.5
  Dictionaries and encyclopedias

353
  History

353.3
  Biography

353.4.A-Z
  Collective
  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
Neurophysiology and neuropsychology -- Continued

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
  General works
  360 Cognitive neuroscience
  360.6 Neuroanthropology
  360.7 Neuroergonomics

Nervous system

361 General works, treatises, and textbooks
  361.5 Juvenile works
  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
    Including white matter
  365 Inhibition (General)
  365.2 Sensitization

Peripheral nervous system

365.5 General works
  366 Cerebrospinal nerves
    367 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
Neurophysiology and neuropsychology

Nervous system

Central nervous system -- Continued

(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
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
Claustrum

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
398
Intellect

Cf. BF431+ Psychology
Neurophysiology and neuropsychology
Nervous system
  Central nervous system
    Brain -- Continued
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
445
  Time
  Sensory receptors
447
    General works
    Chemoreceptors see QP455+
447.5
    Electoreceptors
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
Neurophysiology and neuropsychology

Senses. Sensation. Sense organs

Special senses -- Continued

Somesthesia

448
General works
Cutaneous senses

450
General works

451
Touch

451.2
Pressure

451.4
Pain

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

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

487
Binocular vision

General works
Neurophysiology and neuropsychology
Senses. Sensation. Sense organs
Special senses
Vision. Physiological optics
Binocular vision -- Continued

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
513
Early works through 1800
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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
517.B56
Bioluminescence see QH641
517.B57
Biomimetics
517.B58
Biosynthesis
517.B59
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
517.C66
Computer simulation see QP517.M3
517.C78
Cooperative binding
517.D57
Cryobiochemistry
517.D57
Dissociation
517.F66
Fossil biomolecules
517.H53
High pressure biochemistry
Animal biochemistry
   Special topics, A-Z -- Continued
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
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
   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
Animal biochemistry

Technique. Analytical biochemistry

| 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 |
| 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 |
| 519.9.I44 | Immunoenzyme technique |
| 519.9.I48 | Infrared spectroscopy |
| 519.9.I54 | Ion exchange chromatography |
| 519.9.I8 | Isoelectric focusing |
| 519.9.I84 | Isotachophoresis |
| 519.9.I87 | Isotopes |
| 519.9.L37 | Laser spectroscopy |
| 519.9.L55 | Liquid chromatography |
| 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 |
| 519.9.P68 | Positron emission tomography |
| 519.9.P84 | Pulsed-field gel electrophoresis |
| 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 |
| 519.9.S85 | Supercritical fluid extraction. Supercritical fluid chromatography |
| 519.9.T55 | Thin layer chromatography |
| 519.9.T59 | Time-resolved spectroscopy |
Animal biochemistry
  Technique. Analytical biochemistry
    Special methods, A-Z -- Continued
  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
      Colloids
      Radicals
      Xenobiotics
  529    General works
    529.5    Plant compounds
    Inorganic substances
      General works, treatises, and textbooks
      Metals
      Minerals
    534    Trace elements
      Cf. TX553.T7 Food value
      (Table Q1)
    Organic substances
      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
        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
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

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
Copper proteins

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

552.F5
Fetoproteins, Alpha see QP552.A439

552.F52
Fibroblast growth factors

552.F53
Fibromodulin

552.F54
Fibronectins

552.F58
Fibronectins

552.G16
G proteins

552.G25
Galanin

552.G3
Gamma globulins

552.G35
Gastric intrinsic factor

552.G4
Gelatin

552.G45
Glycyl 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
Haptoglobin

552.H43
Heat shock proteins

552.H46
Hemoglobin see QP96.5

552.H48
Hemoproteins

552.H5
Histones

552.H9
Hypoglycin

552.I54
Insulin-like growth factor-binding proteins

552.I55
Integrins

552.I56
Interphotoreceptor retinoid-binding protein
Animal biochemistry
  Special substances
  Organic substances
  Proteins, amino acids, etc.
    Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued
    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
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  Neurotrophins
552.N46  NF-kappa B (DNA-binding protein)
552.N62  Nonhistone chromosomal proteins
552.N67  Notch proteins
552.N82  Nucleoproteins
    Nucleoproteins see QP625.N87
552.O65  Opioid peptides
552.O77  Osteopontin
552.O94  Ovomucoid
552.P25  p53 protein
552.P39  Paxillin
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
Special substances
Organic substances
Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

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
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  Thaumatins
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.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
562.S45  Selenomethionine
562.T5  Threonine
562.T7  Tryptophan
Animal biochemistry
     Special substances
       Organic substances
       Proteins, amino acids, etc.
          Amino acids
             Constituents of proteins, A-Z -- Continued
              Tyrosine
              Valine
              Other, A-Z
              Adenosylmethionine
              Agmatine
              Aminobutyric acid
              Aminocapric acid
              Citrulline
              Dihydroxyphenylalanine
              DOPA see QP563.D5
              Dopamine
              GABA
              Gamma-aminobutyric acid see QP563.G32
              Kainic acid
              Kynurenine
              Ornithine
              Thyroxine

Hormones
     General works, treatises, and textbooks
     Hormone inhibition
     Hormone receptors
     Special, A-Z
        ACTH see QP572.A35
        Adrenaline
        Adrenocortical hormones
        Adrenocorticotropic hormone
        Aldosterone
        Amylin
        Androgens
        Androstenedione
        Angiotensins
           Including individual angiotensins
        Atrial natriuretic peptides
        Calcitonin
        Calcium regulating hormones
        Catechol estrogens
        Chalones
        Cholecystokinin
        Chorionic gonadotropins
        Corticosterone
        Corticotropin releasing hormone
        Cortisone
        Ecdysone
        Ecdysteroids
        Estradiol
        Estrogen
           Cf. QP572.P48 Phytoestrogens
        Estrogens, Catechol see QP572.C36
        Follicle-stimulating hormone
        Gastrin
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Hormones

Special, A-Z -- Continued

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  Growth hormone see QP572.S6
572.G75  Growth hormone releasing factor
572.H85  Hydroxyprogesterone
572.H9  Hypothalamic hormones
572.I47  Inhibin
572.I5  Insulin
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
572.N6  Norepinephrine
572.O74  Orexins
572.O9  Oxytocin
572.P3  Parathyroid hormone
572.P33  Parathyroid hormone-related protein
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
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Hormones
Special, A-Z -- Continued

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

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
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Enzymes
Oxidoreductases
Special, A-Z -- Continued

603.H92  Hydroxymethylglutaryl coenzyme A reductases
603.I54  IMP dehydrogenase
603.L33  Lactate dehydrogenase
603.L56  Lipoxigenases
603.M48  Methylene tetrahydrofolate reductase
603.M6   Monamine oxidase
603.M65  Monooxygenases
603.N58  Nitrogenase
603.O8   Oxidases
603.O85  Oxygenases
603.P4   Peroxidase
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 oxidase
Tyraminase see QP603.M6
Tyrosinase see QP603.P43

603.U7   Urate oxidase
Uricase see QP603.U7

Transferases

General works, treatises, and textbooks
Special, A-Z

606.A-Z
606.A33  Acetyltransferases
606.A43  Aminotransferases
606.A8   Aspartate aminotransferase
606.C37  Carnitine acyl transferases
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
Animal biochemistry
  Special substances
  Organic substances
  Proteins, amino acids, etc.
  Enzymes
    Transferases
      Special, A-Z -- Continued
      606.R49  Rho-associated protein kinases
      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
    609.C45  Chymosin see QP609.R4
    609.C6   Chymotrypsin
    609.C64  Coagulase
    609.C64  Collagenase
      Converting enzyme, Angiotensin see QP609.A53
    609.C92  Cyclic nucleotide phosphodiesterases
    609.C93  Cyclin-dependent kinases
    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
Animal biochemistry
  Special substances
  Organic substances
  Proteins, amino acids, etc.
  Enzymes
    Hydrolases
      Special, A-Z -- Continued
  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
  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
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Enzymes
Hydrolases
Special, A-Z -- Continued
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
613.C37 Carbonic anhydrase
Carbonate dehydratase see QP613.C37
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
615 General works, treatises, and textbooks
616.A-Z Special, A-Z
616.D54 DNA helicases
616.D56 DNA topoisomerases
616.P46 Peptidylprolyl isomerase
616.P76 Protein disulfide isomerase
Ligases
618 General works, treatises, and textbooks
619.A-Z Special, A-Z
619.A45 Aminoacyl-tRNA synthetases
619.D53 DNA ligases
619.G58 Glutamine synthetase
619.L9 Lysyl ribonucleic acid synthetase
619.P87 Pyruvate carboxylase
Nucleic acids
620 General works, treatises, and textbooks
Ribonucleic acids
623 General works, treatises, and textbooks
623.5.A-Z Special, A-Z
623.5.A58 Antisense RNA
623.5.C36 Catalytic RNA
623.5.M47 Messenger RNA
623.5.S63 Small interfering RNA
623.5.T73 Transfer RNA
RNA-ligand interactions
623.7 General works
623.8.A-Z Special ligands, A-Z
Animal biochemistry
  Special substances
    Organic substances
      Nucleic acids
        Ribonucleic acids
          RNA-ligand interactions
            Special ligands, A-Z -- Continued

Deoxyribonucleic acids
  Proteins

623.8.P75

General works, treatises, and textbooks

624

Special topics, A-Z

624.5.A-Z

Antisense DNA

624.5.A57

Circular DNA

624.5.C57

DNA fingerprinting

624.5.D72

DNA microarrays

624.5.D76

DNA probes

624.5.D73

Extrachromosomal DNA

624.5.E98

Methylation

624.5.M46

Mitochondrial DNA

624.5.M58

Radiation effects

624.5.R33

Recombinant DNA

624.5.R43

Replication

624.5.R48

Satellite DNA

624.5.S26

Stability

624.5.S73

Structure

624.5.S78

Terminal restriction fragment length polymorphism analysis

624.5.T47

Z-DNA

DNA-ligand interactions

624.74

General works, treatises, and textbooks

624.75.A-Z

Drugs

624.75.P74

Other related substances, A-Z

625.A-Z

Adenine nucleotides

625.A25

Adenosine

625.A27

Adenosine diphosphate ribose

625.A29

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625.IS4

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625.N34

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625.N8

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For compounds with names beginning "Organo..." the Cutter number is determined by the element or substance following this prefix

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801.O8   Oxalic acid
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801.P36  Penicillin
801.P374 Pentoxifylline
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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
Bacteria
Physiology
Metabolism -- Continued
88.4 Methylotrophy
88.5 Photosynthesis
  Cf. QK882 Plant physiology
88.7 Chemoautotrophy
  Respiration
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
92.P6 Polysaccharides
92.P7 Propionic acid
  Protein A, Staphylococcal see QR92.S68
92.P75 Proteins
92.P87 Purines
Bacteria
  Physiology
  Metabolism
    Other substances, A-Z -- Continued
    Salts
    Siderophores
    Staphylococcal protein A
    Steroids
    Sugars
    Sulfur
    Vitamins
    Xanthan gum
 92
  Anhydrobiosis
  93
  Heat production
  94
  Light production
  95
  Motility. Irritability
  96
  Interaction. Communication
  96.5
  Adhesion
  Environmental factors
    General works
  97.A1
  By factor, A-Z
  97.A2-Z
    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
  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
  99.6
    Cyanobacteria
    Periodicals. Serials
Cyanobacteria -- Continued

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.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
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
Microbial ecology
By type of environment
Foods -- Continued
129.A-Z Other food products, A-Z
129.B44 Beer
129.C6 Corn oil
129.F7 Fruit juice
129.K56 Kimchi
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
135.5.M37 Metals
135.5.P47 Pesticides
148 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 General works
(155) 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
Microorganisms in the animal body
   By organ or system, etc., A-Z -- Continued

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
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
Immunology
  Immunogenetics -- Continued
  184
  General works
  184.2
  Human immunogenetics
    Histocompatibility. H-2 locus
  184.3
  General works
  184.3.15
  Major histocompatibility complex
  184.3.2
  HLA antigens
    Minor histocompatibility antigens
  184.3.4
  General works
  184.3.5
  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
  185.3.3
  Maternally acquired immunity
  185.3.5
  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
    Antibody-drug conjugates see RS201.A56
    Antibody-toxin conjugates
    185.8.A58
    Antigen presenting cells
    185.8.A59
    B cells
    185.8.B15
    Biological response modifiers
    185.8.B54
    Chemokines
    185.8.C45
    Complement
      Cf. QR187.C6 Complement fixation
    185.8.C6
    Cytokines
    185.8.C95
    Dendritic cells
    185.8.D45
    Eosinophils
      Cf. QP95.3 Physiology
    185.8.E58
    Fc receptors
    185.8.F33
    Germinal centers
    185.8.G4
    Granulocytes
      Cf. QP95.4 Physiology
    185.8.G73
    Hybridomas
      Cf. QH451 Cell fusion
    185.8.H93
    Immune complexes
    185.8.I45
    Interleukins
      Including interleukin-1, interleukin-2, etc.
    185.8.I56
    Killer cells
    185.8.K54
    Langerhans cells
    185.8.L35
    Leucocytes
      Cf. QP95+ Physiology
    185.8.L48
    Leukolysins
    185.8.L49
    Lymphocytes
    185.8.L9
    Lymphokines
    185.8.L93
    Macrophage migration inhibitory factor
    185.8.M28
    Macrophages
    185.8.M3
Immunology
Immunology structures

By type, A-Z -- Continued

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
186.6.A-Z By type, A-Z
186.6.B33 Bacterial antigens
           Blood group antigens see QP98
186.6.C37 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
           H-Y antigen see QR184.35
186.6.H3  Haptens
186.6.H42 Heat shock proteins
           Histocompatibility antigens see QR184.3+
           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
Immunology
Antigens
By type, A-Z -- Continued
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
Viral antigens

Antibodies. Immunoglobulins
186.7 General works
186.8.A-Z 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
186.83.A-Z 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

Specificity
Antigen-antibody reactions
Class tests with type of reaction
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 Immunoadsorption
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
Immunology -- Continued

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

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
BGC vaccine see QR189.5.T72

189.5.C45

Chickenpox

189.5.C68

COVID-19 vaccines

189.5.D53

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

Polioymelitis

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
Pathogenic microorganisms. By disease, A-Z -- Continued

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
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  Erlichiosis
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
201.G45  Giardiasis
201.G5  Glanders
Pathogenic microorganisms. By disease, A-Z -- Continued

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
201.H7   HIV infections see QR201.A37
201.H86  HTLV infections
201.I6   Influenza
201.L44  Jaundice see QR201.L6
201.L5   Leptospirosis. Jaundice
201.L64  Leukemia
201.L7   Listeria
201.L88  Lyme disease
201.L9   Lymphocytic choriomeningitis
201.M3   Malaria
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.N67  Norovirus infections
201.P26  Papillomavirus diseases
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
201.P733  Porphyromonas gingivalis infections
201.P737  Prion diseases
201.P74  Pseudomonas aeroginosa 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
Pathogenic microorganisms. By disease, A-Z -- Continued

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.S56  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
201.Z45  Zika virus infection

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
Microorganisms of animals -- Continued

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.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
360  General works, treatises, and textbooks
Virology -- Continued

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
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| .S7 | Stannum see Q1 .S7 |
| .S3 | Stibium see Q1 .S3 |
| .S8 | Sr Strontium |
| .T2 | Ta Tantalum |
| .T3 | Tb Terbium |
| .T35 | Tc Technetium |
| .T4 | Te Tellurium |
| .T5 | Th Thorium |
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| .T6 | Ti Titanium |
| .T7 | Tl Thallium |
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| .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 |
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