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
60.6 Baltic States
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
80.167
Iran
80.17
Israel
80.J67
Jordan
80.K6
Korea
80.P3
Pakistan
80.Q38
Qatar
80.R8
Russia in Asia. Siberia
80.S2
Saudi Arabia
80.S5
Singapore
80.S64
Southeast Asia
   Sri Lanka see Q80.C4
80.S9
Syria
80.T5
Thailand
80.T8
Turkey

82
Arab countries

83
Islamic countries

Africa

85
South Africa
85.2
Kenya
85.4
Nigeria
85.6
Zimbabwe
85.8
Namibia. South-West Africa

87
Egypt

89
Senegal
89.2
Mauritius
89.5
Sudan

91.A-Z
Other regions or countries, A-Z
91.A47
Algeria
91.A5
Angola
91.B45
Benin
91.B85
Burkina Faso
91.B87
Burundi
91.C17
Cameroon
91.C4
Central Africa
91.C48
Chad
91.C6
Congo (Democratic Republic). Zaire
91.E84
Ethiopia
91.G5
Ghana
91.M27
Madagascar
91.M3
Malawi
91.M55
Morocco
91.M6
Mozambique
(91.N28)
Namibia
   see Q85.8
91.S9
Sub-Saharan Africa
91.S95
Swaziland
Societies
Africa
Other regions or countries, A-Z -- Continued
91.T8
Tunisia
91.Z33
Zambia
93
Australia
94
New Zealand
99
Pacific islands
101
Congress
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
125.2
Renaissance through 1700
125.4
Outlines, syllabi
125.6
Pictorial works and atlases
126
Popular works
126.4
Juvenile works
126.8
Addresses, essays, lectures
126.9
Study and teaching. Research
127.A-Z
By region or country, A-Z
e.g.
127.G4
Great Britain
127.G7
Greece
127.2
Developing countries
128
Contributions to science. By religious or ethnic groups
130
Women in science. Women scientists
For biography see Q141+
Cf. HQ1397 Women in science and the arts
Biography
Biography -- Continued

Collective

143.A-Z Individual, A-Z

   e.g.

143.G4 Galvani, Luigi

143.H5 Helmholtz, Hermann von

143.P2 Pasteur, Louis

143.S8 Swedenborg, Emanuel

145 Directories

Science as a profession. Vocational guidance

Cf. Q130 Women in science

147 General works

148 Employment surveys, manpower requirements, statistics, etc.

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

Brain drain

150 General works

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

Early works through 1800

   Including textbooks

151 Ancient

153 Medieval

155 1500-1700

157 1701-1800

General works and treatises

158 1801-1969

158.5 1970-

Textbooks

Advanced

160 1801-1969

160.2 1970-

Elementary

161 1801-1969

161.2 1970-

161.7 Pictorial works and atlases

   Cf. Q222 Scientific illustration

162 Popular works

163 Juvenile works

164 Recreations, home experiments, etc.

   Including experiments for children

   Cf. Q182.3 Science projects

167 Anecdotes, facetiae, satire, etc.

171 Addresses, essays, lectures

172 Special aspects of the subject as a whole

172.5.A-Z Special topics, A-Z

172.5.C45 Chaotic behavior in systems

   Including pattern formation

   Cf. QC174.17.C45 Quantum theory

172.5.C74 Creative ability in science

172.5.E77 Errors

(172.5.F7) Fraud

   see Q175.37

172.5.H47 Heresy in science

172.5.I5 International cooperation

172.5.M87 Music

Parapsychology and science see BF1045.S33

Pattern formation see Q172.5.C45
Special topics, A-Z -- Continued

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 curiosities
    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
175.32.P39  Physical laws of science. Laws of nature
175.32.R42  Realism
175.32.R45  Reasoning. Logic
Philosophy. Methodology

Special topics, A-Z -- Continued

175.32.R47 Reductionism
175.32.S5 Simulation. Computer models
    Class here works on philosophical and methodological aspects of simulation and computer
    modeling in science
    For works on the mathematics of computer simulation see QA76.9.C65
175.32.S78 Structuralism
175.32.S83 Subjectivity
175.32.T56 Time
175.32.T78 Truth
175.32.V35 Values
175.32.V57 Virtue epistemology
175.32.V65 Vitalism

Scientific ethics
    Cf. Q180.55.M67 Moral and ethical aspects of research
175.35 General works, treatises, and textbooks
175.37 Fraud

Social aspects
    Class here works that discuss the impact of science on modern society and the sociology of
    science.
    For works on the role of science in the history and development of civilization see CB478
175.4 Periodicals, societies, congresses, serial publications
175.46 History
175.5 General works, treatises, and textbooks
175.52.A-Z By region or country, A-Z
175.54 Developing countries
175.55 Addresses, essays, lectures
176 Periodicity. Cycles
177 Classification of the sciences
    Cf. BD239.2+ Speculative philosophy
179 Nomenclature, terminology, notation, abbreviations

Research
179.9 Periodicals, societies, congresses, serial publications
179.92 Collected works (nonserial)
179.94 Communication of information
179.96 Information services
179.97 Computer network resources
    Including the Internet
179.98 Directories
180.A1 General works, treatises, and advanced textbooks
180.A3 History
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
180.55.C55 Classification
180.55.C6 Cost
180.55.D57 Discoveries
Research

Special topics, A-Z -- Continued

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

Laboratories

180.56 General works
180.57 Management
180.58 Records. Laboratory notebooks
180.6.A-Z By region or country, A-Z
  Subarrange each country by Table Q6
180.7 Astronautics in science
  Cf. TL798.S3 Scientific satellites

Study and teaching

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

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

For programmed texts see Q160+

Cf. Q190+ Audiovisual aids in science teaching

181.A1 Periodicals, societies, congresses, serial publications
181.A2-Z General works, treatises, and textbooks
181.3 Addresses, essays, lectures
181.5 Outlines, syllabi
182 Problems, exercises, examinations
182.3 Experiments
  Including science projects
  Cf. Q164 Recreations, home experiments, etc.
182.4 Science fairs
182.5 Laboratory manuals
182.6 Competency-based education
182.7 Electronic information resources
  Including computer network resources, the Internet, digital libraries, etc.
Study and teaching -- Continued

Laboratories

183.A1
General works

183.A3-Z
By region or country, A-Z
Subarrange each country by Table Q6

By region or country
United States

183.3.A1
General works

183.3.A2-Z
By region or state, A-Z
Subarrange each state by Table Q7

183.4.A-Z
Other regions or countries, A-Z
Subarrange each country by Table Q7

183.9
Data processing

Instruments and apparatus (General)

184
Periodicals, societies, congresses, serial publications

184.5
Dictionaries and encyclopedias

185
General works, treatises, and textbooks

185.3
Juvenile works

185.7
Catalogs

Audiovisual aids in science teaching

190
General works, treatises, and textbooks

192
Films. Motion pictures

194
Radio

196
Television

197
Other (not A-Z)

199
Handbooks, tables, formulas, etc.

209
Science readers in English

Science readers for the study of foreign languages
see PA-PM

(211)
Science readers in French
see PC2127.S4

(213)
Science readers in German
see PF3127.S3

(215)
Science readers in Italian
see PC1127.S3

(219)
Science readers in other languages, see PA-PM

222
Scientific illustration
Cf. T11.8 Technical illustration

Communication in science
Cf. Q124 Translating services. Translating
Cf. R118+ Communication in medicine
Cf. T10.5+ Communication of technical information

223
General works

Information services
Including information centers

223.2
Periodicals, societies, congresses, serial publications

223.5
Directories

224
General works

224.3.A-Z
By region or country, A-Z
Subarrange each country by Table Q5

224.5
Electronic information resources
Including computer network resources, the Internet, digital libraries

Science news. Science and the public

225
General works

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

225.5
Scientific literature
Communication in science -- Continued

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

325.5 Machine learning
  General works

325.6 Reinforcement learning

325.7 Computational learning theory

325.75 Supervised learning

325.78 Back propagation

327 Perceptron theory
  Cf. TK7882.P3 Pattern recognition systems

Artificial intelligence

334 Periodicals, societies, congresses, serial publications

334.2 Dictionaries and encyclopedias

334.5 Collected works (nonserial)

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
  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
Cybernetics
   Self-organizing systems. Conscious automata
      Artificial intelligence -- Continued
         339   Default reasoning
         339.19  Model-based reasoning
         339.2   Nonmonotonic reasoning
         339.25  Qualitative reasoning
         340   Constraints
         341   Turing test
         342   Computational intelligence

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
      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

Algebraic logic

10. General works
10.3. Boolean algebra

Cf. QA268.5 Switching theory

10.35. Quantum logic
10.4. Information theory in mathematics
10.5 Mathematics as a profession. Vocational guidance
10.7 Social aspects
10.8 War and mathematics

Study and teaching. Research
For computer-assisted instruction in mathematics see QA20.C65
For use of electronic computers in mathematics see QA76.95
Cf. QA135+ Elementary mathematics

11.A1 Periodicals, societies, congresses, serial publications
General works, treatises, and textbooks
11.A2-Z
To 2000
11.2 2001-
11.5 Computer network resources
Including the Internet

12 Addresses, essays, lectures
By region or country
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
19.A78 Art
19.B55 Blocks (Toys)
19.C45 Charts, diagrams, etc.
19.C8 Cuisenaire rods
19.L58 Literature
19.M34 Manipulatives
19.M6 Motion pictures
19.M87 Music
19.O9 Overhead projectors
19.P34 Paper work
Including folding, cutting, etc.
19.P53 Picture books
19.T4 Television
Authorship see QA20.M38
20.C34 Calculators
20.C65 Computer-assisted instruction
Including computer-based experiments
20.E43 Electronic spreadsheets
20.F67 Forums (Discussion and debate)
20.G35 Games
20.G47 Gesture
20.G76 Group guidance
20.H54 Hieroglyphics
20.I53 Individualized instruction
Intervention, Response to see QA20.R47
20.M33 Magic tricks
20.M38 Mathematical writing. Authorship
20.M63 Mobile communication systems
Study and teaching. Research
Special teaching methods and aids
Other methods, A-Z -- Continued

20.P49 Physical education
20.P67 Portfolios
20.P7 Programmed instruction
   For programmed texts, see QA36.5+ QA101+
20.P73 Project method
20.R43 Reading comprehension
20.R47 Response to intervention
20.T43 Teaching teams
20.U55 Unit method of teaching
20.W46 Whole brain learning
20.3 Awards, prizes, etc. Competitions

History
21 General
22 Ancient
23 Medieval
   Modern
   General see QA21
24 16th-18th centuries
26 19th-20th centuries
27.A-Z By region or country, A-Z
27.5 Women in mathematics. Women mathematicians
   For biography see QA28+

Biography
28 Collective
   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
36 General works
   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
Juvenile works
Formulas, notation, abbreviations
Nomenclature, terminology
Communication of mathematical information
General works
Information services
Computer network resources
Including the Internet
Mathematical literature
Language. Authorship
Cf. QA20.M38 Mathematical writing in mathematics study and teaching
Problems, exercises, examinations
Tables
Cf. QA281 Interpolation. Extrapolation
General tables
Multiplication tables
Including squares and cubes, square roots and cube roots, reciprocals
Factor tables
Logarithms. Tables of mathematical functions
Including trigonometric, hyperbolic, etc.
General works
Theory and use of logarithms
Problem solving
Instruments and machines
Including practical mathematics, graphical and numerical calculating
General works, treatises, and textbooks
Slide rules
Computation laboratories
Calculating machines
For works on the use of calculators in mathematic instruction see QA20.C34
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
Periodicals, societies, congresses, serial publications
General works, treatises, and textbooks
Dictionaries and encyclopedias
Communication of computer science information
General works
Information services
Language. Authorship
Philosophy
History
Biography
Individual, A-Z
Directories
Juvenile works
Addresses, essays, lectures
Computer science as a profession. Vocational guidance
Study and teaching. Research
General works
Problems, exercises, examinations
Instruments and machines
Calculating machines
Electronic computers. Computer science
Study and teaching. Research -- Continued

76.3 Certification of electronic data processing personnel
Class here works on certification in general
For works on certification on special topic, prefer classification with the special topic, e.g., QA76.73.J38 Study guide for Java certification

76.33 Computer camps
Laboratories
76.35 General works
76.36.A-Z Individual laboratories, A-Z
76.38 Hybrid computers
76.4 Analog computers
digital computers
76.5 General works
76.52 Microcomputer workstations
76.525 Juvenile works
76.527 Network computers
For works on computer network management see TK5105.548+

76.529 Computer scheduling
General works
76.5295.A-Z Special topics, A-Z
76.5295.A34 Affinity scheduling
76.5295.P37 Parallel scheduling
76.53 Time-sharing data processing
Real-time data processing
76.54 General works
76.545 Transaction systems
Online data processing
Including general online information services and general videotex systems
76.55 General works
76.57.A-Z Special systems, A-Z
76.57.A43 America Online
76.57.A77 AT&T WorldNet
76.57.C65 CompuServe
76.57.D44 DELPHI
76.57.E88 eWorld (Online service)
76.57.G45 GEnie (Videotex system)
76.57.G48 GNN
76.57.M52 Microsoft Network
76.57.M55 Minitel
76.57.P75 Prodigy (Online service)
76.57.P77 ProfNet
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.I59 Interactive multimedia
76.58 Parallel processing. Parallel computers
76.585 Cloud computing
76.59 Mobile computing
76.5913 Semantic computing
76.5915 Ubiquitous computing
76.592 Wearable computers
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers -- Continued
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

Programming languages

76.7
General works
76.73.A-Z
Individual languages, A-Z

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

76.73.A12
ABAP
76.73.A24
ALGOL
76.73.A27
APL
76.73.A35
Ada
76.73.A67
AppleScript
76.73.A8
Assembly languages. Assemblers

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

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

76.73.A84
AutoLISP
76.73.A95
AWK
76.73.B155
B
76.73.B3
BASIC
76.73.B78
BSV 753
76.73.C15
C
76.73.C153
C++
76.73.C154
C#
76.73.C25
COBOL
76.73.C56
Clipper
76.73.C58
CoffeeScript
76.73.C75
CSP
76.73.C87
Curl
76.73.D138
D
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

D*
Dart
DRL
Dylan
EasyLanguage
ELAN
ERLANG
F
FOCUS
FORTRAN
FRED
GW-BASIC
Go
Haskell
Hopscotch
HP-GL/2
HyperTalk
INFORMIX-4GL
J#
Java
JavaScript
Job Control Language
JR
Julia
Kodu
KornShell
LISP
LogiQL
LOGO
LotusScript
Lua
M
Mathematica
Maude
MDX
Microsoft Visual Basic

Including Microsoft Visual Basic for applications

ML
MySQL see QA76.73.S67
NCL
Objective-C
OpenCL
PHP
PL/1
packetC
PostScript

Class here works on designing or writing compilers for PostScript
For works on using PostScript to control the page appearance of paper documents, see Z52.5 or Z250.8.P68
PowerShell see QA76.73.W56
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

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 PowerShek
76.73.W65
    Wolfram language
76.73.X16
    X86 assembly language
76.73.X57
    XPath
76.73.X58
    XSLT
76.73.Z2
    Z

Computer software
For individual programs, see the type of program, e.g. QA76.76.T49 Text editors
For application programs, see the field, e.g. HF5548.4.L67 Lotus 1-2-3

76.75
    Periodicals, Societies. Serials
76.751
    Congresses
76.752
    Dictionaries
76.753
    Catalogs
76.754
    General works
76.755
    Handbooks, tables, etc.
76.756
    Addresses, essays, lectures
76.758
    Software engineering
    Including software reengineering

76.76.A-Z
    Special topics, A-Z
76.76.A54
    AngularJS
76.76.A63
    Application program interfaces
76.76.A65
    Application software
    Including composite applications
(76.76.A87)
    Assemblers
See QA76.73.A8, Assembly languages. Assemblers see QA76.73.A8
76.76.A98
    Automatic differentiations
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Special topics, A-Z -- Continued

76.76.C47 Certification of software
76.76.C54 Children's software
76.76.C64 Compatibility of software
76.76.C65 Compilers
    Including compilers of individual computer programming languages
76.76.C66 Component software
    Composite applications see QA76.76.A65
76.76.C672 Computer games
    Class here works on programming computer games
    For general works on computer games as well as works on specific computer games and
    actual software see GV1469.15+
76.76.C68 Computer viruses
76.76.C69 Configuration management
76.76.C73 Costs
76.76.D47 Development
76.76.D49 Device drivers
    Including individual device drivers
76.76.D57 Disassemblers
    Including decompilers
76.76.D63 Documentation of software
    Ecosystems, Software see QA76.76.S62
76.76.E93 Evaluation of software
76.76.E95 Expert systems
76.76.F34 Failures of software
    File conversion software see QA76.9.F48
    Frameworks see QA76.76.S63
76.76.F75 Free computer software
    Cf. QA76.76.O62 Open source software
76.76.G46 Generators
76.76.H85 Human factors
(76.76.H92) Hypermedia systems
    see QA76.76.I59
76.76.H94 Hypertext systems
    Including hypertext document markup languages, e. g. HTML (Document markup
    language), XML (Document markup language), etc.
76.76.I55 Install programs
76.76.I57 Integrated software
76.76.I58 Intelligent agents
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
    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
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Special topics, A-Z -- Continued

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.S62  Software ecosystems
76.76.S63  Software failures see QA76.76.F34
Software frameworks
For special frameworks, see the framework, e.g., Microsoft .NET Framework QA76.76.M52
76.76.S64  Software maintenance
Including Year 2000 date conversion
76.76.S65  Software measurement
76.76.S66  Software support
76.76.S69  Spyware
76.76.S73  Standards for software
76.76.S95  Systems software
76.76.T45  Teleprocessing monitors
76.76.T47  Termination
76.76.T48  Testing of software
76.76.T49  Text editors
For works on how to use text editors to produce paper documents, see Z52, Z253.3+, or Z253.53+
76.76.T55  Threads
76.76.T83  Translators
76.76.U84  Utilities
76.76.V47  Verification and validation of software
Viruses see QA76.76.C68
76.76.W56  Windows
Class here works on window functionality
For works on individual Microsoft Windows operating systems see QA76.774.A+
Year 2000 date conversion see QA76.76.S64
76.765  Firm-ware
Operating systems
76.77  General works
76.774.A-Z  Individual operating systems. By system, A-Z
76.774.A53  Android
76.774.B47  Berkeley BSD
BSD, Free see QA76.774.F74
76.774.D67  DOS
76.774.F74  FreeBSD
76.774.I67  iOS
76.774.L46  Linux
76.774.M33  Mac OS
Macintosh OS see QA76.774.M33
76.774.M43  Microsoft Windows 7
76.774.M434 Microsoft Windows 8
Instruments and machines
  Calculating machines
  Electronic computers. Computer science
  Computer software
  Operating systems
    Individual operating systems. By system, A-Z -- Continued

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.B38
  BeagleBone Black
76.8.C46
  Chromebook
76.8.E53
  ENIAC
76.8.I12
  IBM 360
76.8.I63
  iPad
76.8.I64
  iPhone
76.8.K56
  Kindle Fire
76.8.M3
  Macintosh
    Including MacBook
76.8.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
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
Instruments and machines
  Calculating machines
    Electronic computers. Computer science
    Other topics, A-Z -- Continued
  76.9.A25
    Access control. Computer security
      Cf. HF5548.37 Security measures in electronic data processing departments
      Cf. TK5105.8855 Internet access control
  76.9.A3
    Adaptive computing
  76.9.A43
    Algorithms
  76.9.A48
    Ambient intelligence
  76.9.A73
    Architecture, Computer
  76.9.A93
    Auditing
      Class here works on the auditing of electronic data processing systems and activities
      For works dealing with the auditing of electronic data processing departments see
      HF5548.35
  76.9.A94
    Augmented reality
  76.9.A955
    Automatic hypothesis formation
  76.9.A96
    Automatic theorem proving
  76.9.A97
    Autonomic computing
  76.9.B22
    B method
  76.9.B32
    Backup processing
  76.9.B38
    Batch processing
  76.9.B45
    Big data
    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
  76.9.C643
    Computer organization
  76.9.C65
    Computer simulation
      Cf. T57.62+ Industrial engineering
      Cf. TA343 Engineering mathematics
    Computer system failures see QA76.9.F34
  76.9.C659
    Computers and children
      Cf. LC40.5.C66 Computer-assisted home schooling
  76.9.C66
    Computers and civilization. Social aspects of computers
    Computers and family see QA76.9.F35
    Computers and older people see QA76.9.O43
    Computers and women see QA76.9.W65
  76.9.C67
    Constraint databases
    Conversion of computer files see QA76.9.F48
  76.9.C68
    Conversion of computer systems
  76.9.C72
    Cookies (Computer science)
    Crowdsourcing see QA76.9.H84
  76.9.C92
    Cyberinfrastructure
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued
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.D3 Data compression
76.9.D335 Data encryption
76.9.D37 Data entry
76.9.D38 Data integration
76.9.D338 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
Ethical aspects see QA76.9.M65
76.9.E94 Evaluation of computer performance
76.9.E95 Evaluation of data processing activities
Event logging see QA76.9.D3385
Expert systems see QA76.76.E95
76.9.F34 Failures of computer systems
Cf. QA76.76.F34 Software failures
76.9.F35 Computers and family
76.9.F38 Fault-tolerant computing
76.9.F48 File conversion
Including individual file conversion software, e.g. Adobe Acrobat
76.9.F5 File organization
76.9.F53 File processing
76.9.F67 Formal methods
76.9.G37 Garbage collection
76.9.G68 Government policy
Granular computing see QA76.9.S63
Instruments and machines
   Calculating machines
      Electronic computers. Computer science
      Other topics, A-Z -- Continued
         Graphical user interfaces see QA76.9.U83
         Grids, Computational see QA76.9.C58

76.9.H35
   Hard disk management

76.9.H36
   Hashing

76.9.H84
   Human computation. Crowdsourcing
      Cf. Q337+ Distributed artificial intelligence

76.9.H85
   Human-computer interaction

76.9.I52
   Information visualization

76.9.I55
   Input design

76.9.I58
   Interactive computer systems

76.9.K48
   Keyboarding
      Class here works on keyboarding computer formats, such as punched cards or punched tape
      For works on keyboarding eye-readable reports and displays see Z49+

76.9.L38
   Lattice theory

76.9.L63
   Logic, Computer

76.9.M3
   Management

76.9.M35
   Mathematics, Computer

76.9.M45
   Memory management

76.9.M65
   Moral and ethical aspects

76.9.M68
   Multilingual computing

76.9.N37
   Natural computation
      Including biologically-inspired computing

76.9.N38
   Natural language processing
      Cf. P98+ Linguistics

76.9.N47
   Netcentric computing
   Non-relational databases see QA76.9.D32

76.9.O35
   Object-oriented methods
      Cf. QA76.64 Object-oriented programming
   OLAP technology see QA76.9.D343

76.9.O43
   Computers and older people

76.9.O59
   Olympiads
   Online databases see QA76.9.D32
   Organization, Computer see QA76.9.C643

76.9.P75
   Psychological aspects

76.9.Q36
   Quantitative research. Quantitative data analysis

76.9.Q4
   Question-answering systems
   Religious aspects see BL255.5

76.9.R45
   Remote job entry

76.9.R48
   Reversible computing
   Security, Computer see QA76.9.A25
   Security, Data base see QA76.9.D314

76.9.S54
   Self-stabilization
   Social aspects of computers see QA76.9.C66

76.9.S63
   Soft computing
      Including granular computing

76.9.S8
   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
Instruments and machines
  Calculating machines
    Electronic computers. Computer science
    Other topics, A-Z -- Continued
    System failures see QA76.9.F34
  76.9.S9
  Systems migration
  76.9.T43
  Technical support
    Cf. QA76.76.S66 Software support
  76.9.T48
  Text processing
  76.9.T7
  Transborder data flow
  76.9.U83
  User interfaces
    Including graphical user interfaces
  76.9.V5
  Virtual computer systems
    Visualization, Information see QA76.9.I52
  76.9.V5
  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
    General works
  85
  Graphic methods (General). Nomography
  90
  Popular works
  93
  Mathematical recreations
    For Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc. see QA491
  99
  Miscellany and curiosities

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-

Special aspects of the subject as a whole
  109
  111
  Rapid calculators and short cuts

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
Elementary mathematics. Arithmetic
Study and teaching
General works, treatises, and textbooks -- Continued
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
(145) Algebra and arithmetic
see QA101+
Algebra
150 Periodicals, societies, congresses, serial publications
151 History
Textbooks
Elementary
152 Through 1970
152.2 1971-2000
152.3 2001-
Advanced
154 Through 1970
154.2 1971-2000
154.3 2001-
154.8 Early works to 1800
155 General works and treatises
Including higher algebra
155.15 Juvenile works
155.2 Addresses, essays, lectures
155.5 Special aspects of the subject as a whole
155.7.A-Z Special topics, A-Z
155.7.E4 Electronic data processing
157 Problems, exercises, examinations
Algebra -- Continued

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
166.19
   Eulerian graph theory
166.195
   Topological graph theory
166.197
   Graph labelings
   Including magic labelings
166.2
   Trees
166.22
   Paths and cycles
166.23
   Hypergraphs
166.24
   Reconstruction
166.242
   Representations of graphs
166.243
   Graph connectivity
166.245
   Graph algorithms
166.247
   Graph coloring

Design and configurations
166.25
   General works
166.3
   Block designs
166.4
   Hadamard matrices
166.6
   Matroids. Greedoids
166.7
   Packing and covering
166.75
   Polyominoes
166.8
   Tessellation and tiling

Combinatorial geometry
167
   General works
167.2
   Finite geometries
Algebra -- Continued

169
   Homological algebra
      Including functors, categories

(171)
   Group theory
      see QA174+

Ordered sets

171.48
   General works

171.485
   Partially ordered sets

171.49
   Semilattices

171.5
   Lattice theory
      Cf. QD921+ Crystal lattices

Ordered algebraic structures

172
   General works

172.4
   Ordered groups

Group theory

Cf. QA172.4 Ordered groups
Cf. QA385+ Continuous groups
Cf. QA387 Topological groups. Lie groups
Cf. QA613.7 Topological transformation groups
Cf. QA614.97 Pseudogroups and deformations of structures
Cf. QC174.17.G7 Quantum theory
Cf. QD455.3.G75 Physical chemistry

174
   Periodicals, societies, congresses, serial publications

174.2
   General works

174.5
   Juvenile works

Study and teaching, Research

174.6
   General works

174.62.A-Z
   Special topics, A-Z

174.62.C65
   Computer-assisted instruction

174.7.A-Z
   Special topics, A-Z

174.7.D36
   Data processing

174.7.S96
   Symmetry

175
   Permutation groups

176
   Representations of groups

177
   Finite groups

177.4
   Formal groups

178
   Infinite groups

179
   Linear algebraic groups

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

184
   General works, treatises, and textbooks

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
Algebra

Linear and multilinear algebra. Matrices
Matrices -- Continued
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
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
Algebra
  Number theory
    Algebraic fields. Algebraic numbers
    Modular fields. Finite fields -- Continued
  247.3
    General works
  247.35
    Modular arithmetic
  247.4
    Differential and difference algebra
  247.45
    Division algebras
  247.5
    Transcendental numbers. Irrational numbers
    Foundations of arithmetic. Set theory. Transfinite numbers
  248
    General works
  248.3
    Elementary textbooks
  248.5
    Fuzzy sets
    Recursive functions. Recursive arithmetic see QA9.6+
  251
    Universal algebra
      Cf. QA184+ Linear and multilinear algebra
  251.3
    Commutative rings and algebras
  251.35
    Group rings
  251.38
    Local rings
  251.4
    Noncommutative rings and algebras
  251.5
    Associative rings and algebras
    Nonassociative rings and algebras
  252
    General works
  252.3
    Lie algebras. Lie superalgebras
      Cf. QA387 Lie groups
  252.5
    Jordan algebras
  255
    Complex numbers
(263)
  Matrices
    see QA188+

Machine theory. Abstract machines. Abstract automata
  Cf. QA9.6+ Recursive functions
  Cf. QA75.5+ Electronic computers
  Cf. QA402.3+ Control theory
  267
    General works, treatises, and textbooks
  267.3
    Formal languages
      Cf. P98+ Language data processing
  267.5.A-Z
    Special types of machines, A-Z
  267.5.C45
    Cellular automata
  267.5.F89
    Fuzzy automata
  267.5.P7
    Probabilistic automata
  267.5.S4
    Sequential machines
  267.5.T45
    Temporal automata
  267.7
    Computational complexity. Kolmogorov complexity
  268
    Coding theory
      Including the mathematics of cryptography
  268.5
    Switching theory
      Cf. QA10.3 Boolean algebra
      Cf. TK7868.59 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
   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 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
274.755 Jump processes
Probabilities
  Stochastic processes
    Markov processes. Markov chains -- Continued
274.76  Branching processes
274.8    Queuing theory
274.9    Self-similar processes
275  Theory of errors. Least squares

Mathematical statistics
  Including statistical inference and fundamental concepts of statistics
  For special applications of statistics, see the field of application, e.g. HD1421+ Agricultural statistics;
    LB2846 Educational statistics; TA340 Statistical methods in engineering
276.A1  Periodicals, societies, congresses, serial publications
276.A12  Collected works (nonserial)
276.A2-Z  General works
276.12  Elementary texts
  Including descriptive statistics
276.13  Juvenile works
276.14  Dictionaries and encyclopedias
276.15  History
  Biography
276.156  Collective
276.16  Addresses, essays, lectures
276.17  Statistics as a profession. Vocational guidance
  Study and teaching. Research
276.18  General works
276.19  Outlines, syllabi
276.2  Problems, exercises, examinations
276.22  Computer-assisted instruction
276.23  Geometrical models
276.25  Handbooks, tables, formulas, etc.
  Including tables of random numbers
276.3  Graphic methods

Data processing
  Class here works on the use of data processing and computers in mathematical statistics in general
  For the application of statistical data processing and statistical analysis programs in special fields see the field, e.g. HF5415.125, Marketing; T57.5, Industrial engineering
276.4  General works
276.45.A-Z  Special programs or languages, A-Z
276.45.J56  JMP (Computer file)
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
Mathematical statistics
  Testing of hypotheses -- Continued
  277.3  Chi-square test
  277.5  Observed confidence levels
Multivariate analysis
  278  General works
  278.2  Regression analysis. Correlation analysis
  278.3  Path analysis. Structural equation modeling
  278.4  Paired and multiple comparisons
  278.5  Factor analysis. Principal components analysis. Correspondence analysis
  278.55  Cluster analysis
  278.6  Latent structure analysis
  278.65  Discriminant analysis
  278.7  Order statistics
  278.75  Ranking and selection
  278.8  Nonparametric methods
Analysis of variance and covariance. Analysis of means. Experimental design
  279  General works
  279.2  Prediction analysis
Decision theory
  279.4  General works
  279.5  Bayesian statistics
  279.6  Fuzzy decision making
  279.7  Multistage decision procedures. Sequential analysis
Time series analysis
  280  General works
Interpolation. Extrapolation
  Cf. QA47+ Mathematical tables
  Cf. QA221+ Approximation theory
  Cf. QA297+ Numerical analysis
Sequences
  Cf. QA246.5 Sequences of integers
Series
  Including infinite products and other infinite processes
Numerical analysis
  Cf. QA221+ Approximation theory
  General works, treatises, and textbooks
  297  Problems, exercises, etc.
  297.3  Numerical approximation
For numerical solution to differential equations, including initial value problems and boundary value problems see QA370+
  Cf. QA71+ Instruments and machines
  Cf. QA90 Graphic methods. Nomography
  Cf. QA218 Numerical solutions of algebraic equations
  Cf. QA275 Least squares
  Cf. QA281 Interpolation. Extrapolation
  297.55  Relaxation methods
  297.6  Smoothing. Curve fitting
  297.65  Rounding
  297.7  Roundoff errors
  297.75  Interval analysis
  297.8  Iterative methods
  298  Numerical simulation. Monte Carlo method
  Cf. T57.62+ Industrial engineering
  299  Numerical differentiation
Numerical integration
Numerical analysis
   Numerical integration -- Continued
299.3
   General works
299.4.A-Z
   Special formulas, A-Z
299.4.C83
   Cubature formulas
299.4.G3
   Gaussian quadrature formulas

Analysis
   Including calculus, functional analysis, functions, differential equations
299.6
   Periodicals, societies, congresses, serial publications
   Foundations
299.8
   General works
299.82
   Nonstandard analysis
300
   General works, treatises, and textbooks
300.5
   Addresses, essays, lectures
301
   Problems, exercises, examinations
302
   Early works through 1800
   Calculus
      Cf. QA431 Calculus of differences
      General works, treatises, and textbooks
      Through 2000
303
   2001-
   Study and teaching. Research
303.2
   Special topics, A-Z
303.3
   Computer-assisted instruction
303.5.D37
   Data processing
   Differential calculus
304
   General works
305
   Problems, exercises, examinations
306
   Miscellaneous special topics
   Integral calculus
308
   General works
309
   Problems, exercises, examinations
310
   Tables of integrals
311
   Miscellaneous special topics
      Measure and integration
      Including Lebesgue integrals
312
   General works
312.5
   Fuzzy measure theory
313
   Ergodic theory
      Cf. QA329.2 Linear operators
      Cf. QA611.5 Topology
314
   Fractional calculus
   Calculus of variations
      Cf. QA402.3+ Control theory
315
   General works
316
   Miscellaneous special topics
   Functional analysis
319
   Periodicals, societies, congresses, serial publications
320
   General works
321
   Addresses, essays, lectures
321.5
   Nonlinear functional analysis
322
   Topological linear spaces
322.2
   Normed linear spaces. Banach spaces
322.4
   Inner product spaces. Hilbert spaces
322.5
   Indefinite inner product spaces
323
   Function spaces
Analysis

Functional analysis -- Continued

324  Theory of distributions
325  Measures, integration, derivatives
326  Topological algebras. Banach algebras

Operator theory

329  General works
329.2  Linear operators
329.4  Differential operators
329.42  Partial differential operators
329.5  Narrow operators
329.6  Integral operators
329.7  Pseudodifferential operators
329.8  General works
329.9  Fixed point theory

  Cf. QA612.24 Fixed points and coincidences

Theory of functions

331  General works, treatises, and advanced textbooks
331.3  Elementary textbooks
331.5  Functions of real variables
331.7  Functions of complex variables
            Riemann surfaces
            Including multiform, uniform functions
333  General works
335  Fuchsian groups
337  Teichmüller spaces
341  Algebraic functions
342  Logarithmic, circular, and exponential functions
343  Elliptic functions. Elliptic integrals. Modular functions
345  Abelian functions. Theta functions
            Including hyperelliptic functions

Special functions

  Cf. QA406 Spherical harmonics
  Cf. QA408 Bessel functions
  Cf. QA409 Lamé functions

351  General
353.A-Z  Other special functions. A-Z
353.A9  Automorphic. Fuchsian
353.C17  C-functions
353.C64  Concave functions
353.E5  Entire functions
            Fuchsian see QA353.A9
353.G3  Gamma
353.G44  Generating functions
            Cf. QA164.8 Combinatorial analysis
353.H9  Hypergeometric
353.K47  Kernel functions
353.P4  Periodic functions
353.T7  Transcendental functions
355  Miscellaneous special topics
360  Geometric principles of analysis. Mapping of regions. Conformal representation
            Cf. QA646 Differential geometry

Differential equations

370  Periodicals, societies, congresses, serial publications
Analysis

Differential equations -- Continued

371
  General works, treatises, and textbooks
  Study and teaching. Research

371.3
  General works

371.32
  Outlines, syllabi, etc.

371.35
  Computer-assisted instruction

371.5.A-Z
  Special topics, A-Z

371.5.D37
  Data processing

372
  Ordinary differential equations (linear and nonlinear)

372.5
  Differential-algebraic equations

373
  Differential-difference equations

374
  Partial differential equations (first order)

377
  Partial differential equations (second and higher orders)

377.3
  Evolution equations
    Cf. QC20.7.E88 Mathematical physics

377.5
  Degenerate differential equations

378
  Initial value problems

378.5
  Inverse problems

379
  Boundary value problems

380
  Bifurcation theory

381
  Differential forms and invariants
    Cf. QA614.46 Pfaffian systems

385
  Continuous groups (of transformations). Infinitesimal transformations

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

Mathematical optimization. Programming
  Cf. T57.7+ Industrial engineering

402.5
  General works

402.6
  Transportation problems
    Including assignment and location problems

Harmonic analysis (General)
  Including abstract harmonic analysis

403
  General works

403.3
  Wavelets

403.5
  Fourier analysis

404
  General works

404
Analysis
  Analytical methods used in the solution of physical problems
    Fourier analysis -- Continued
  404.5
    Orthogonal series. Orthogonal functions and polynomials
    Potential theory. Pluripotential theory
    Cf. QA825+ Analytic mechanics
  404.7
    General works
  405
    Harmonic functions
  406
    Laplace and Legendre functions (Spherical harmonics)
  408
    Bessel functions (Cylindrical harmonics)
  409
    Lamé functions (Ellipsoidal harmonics)
  411
    Toroidal and other harmonics
  425
    Dirichlet's problem and analogous problems
  427
    Nonlinear theories. Nonlinearity
  431
    Difference equations and functional equations. Integral equations. Calculus of differences
  432
    Operational calculus. Laplace transformation
  433
    Vector and tensor analysis. Spinor analysis. Scalar field theory

Geometry
  Cf. QA681 Foundations of geometry
  440
    Periodicals, societies, congresses, serial publications
  441
    Dictionaries and encyclopedias
  442
    Philosophy
  443
    Collected works (nonserial)
  443.5
    History
  444
    Early works through 1800
  445
    General works, treatises, and textbooks
  445.5
    Juvenile works
  446
    Addresses, essays, lectures
  447
    Special aspects of the subject as a whole
  448.A-Z
    Special topics, A-Z
  448.D38
    Data processing

Elementary geometry
  451
    Euclid's Elements for use in schools
      For commentaries, Greek texts, and translations see QA31
    Other textbooks (Plane and solid)
  453
    General works
  455
    Plane
  457
    Solid
  459
    Problems, exercises, examinations
  460.A-Z
    Special propositions, A-Z
  460.P8
    Pythagorean theorem

Study and teaching. Research
  461
    General works, treatises, and textbooks
    Special teaching methods and aids
  462
    General works
  462.2.A-Z
    Special types, A-Z
  462.2.C65
    Computer-assisted instruction
  462.2.G34
    Games
  463
    Laboratory manuals
  464
    Practical geometry. Geometrical drawing
      Cf. QA497 Higher geometrical drawing (Plane)
      Cf. QA501+ Descriptive geometry
  465
    Measurement
    Famous problems
  466
    General works
  467
    Circle squaring
Geometry

Elementary geometry
- Famous problems -- Continued
  - Trisection of the angle
  - Duplication of the cube

Projective geometry
- Cf. QA554 Projective methods (Analytic geometry)

Modern geometry. Inversions
- General works
- Plane
- Solid

Affine geometry

Special topics in plane geometry
- Axioms. Postulates. Logic
  - Cf. QA681 Foundations of geometry
- Straight lines, angles, triangles, etc.
- Curves. Ovals
- Circle
- Conics

Special topics in solid geometry
- Including Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc.

Higher geometrical drawing (Plane)

Descriptive geometry
- Cf. T351+ Mechanical drawing

General works, treatises, and textbooks
- Problems, exercises, examinations

Parallel projection
- General works
  - Orthogonal projection on two planes

Central projection
- General works
- Isometric projection

Oblique projection

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
Geometry
   Analytic geometry -- Continued
   553
   Solid
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   Projective methods
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   Problems, exercises, examinations
   556
   Coordinates
   556.5
   Equipollence
   557
   Straight line and circle. Triangle
   559
   Conics
   559.5
   Curves
   561
   Quadric surfaces
   563
   Maxima and minima
   Algebraic geometry
   564
   General works, treatises, and textbooks
   Higher algebraic curves
   565
   General works, treatises, and textbooks
   Plane curves
   567
   Special curves, A-Z
   567.2.A-Z
   Cubic
   567.2.C82
   Elliptic
   567.2.E44
   Isothermic
   567.2.M63
   Modular
   567.2.O76
   Orthogonal
   567.2.Q35
   Quartic
   567.2.Q54
   Quintic
   567.2.S56
   Smooth affine
   Higher algebraic surfaces
   571
   General works, treatises, and textbooks
   Special surfaces
   573
   Including cubic, quartic surfaces
   Skew algebraic curves
   581
   Including twisted cubics, curves of double curvature
   Tropical geometry
   582
   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+
   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
Geometry

Topology -- Continued

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
612.2  General works
612.23  Braid theory
612.24  Fixed points and coincidences
   Cf. QA329.9 Fixed point theory

Homology and cohomology theories
   Cf. QA169 Homological algebra
612.3  General works
612.32  Intersection homology theory
612.33  K-theory. KK-theory
612.36  Sheaves
612.5  Retracts
Fiber spaces. Fiber bundles. Fiberings
612.6  General works
612.63  Vector bundles
Homotopy theory
612.7  General works
612.72  Homotopy equivalences
612.76  Loop spaces
612.77  H-spaces
612.78  Homotopy groups
612.782  Steenrod algebra
612.79  Obstruction theory
612.8  Spectral sequences

Manifolds and cell complexes
   Including distance geometry
613  General works
613.2  Topological manifolds
613.4  PL-topology
Differential topology
   General works
613.6  Characteristic classes
613.618  Vector fields
613.62  Foliations
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      General works
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   Discrete geometry
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   640.77
      Rigidity
   Differential geometry
      Including general theory of surfaces
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   641
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   642
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   644
      Minimal surfaces. Nets of plane curves
   645
      Surfaces determined by relations of curvature, etc.
   646
      Conformal and other representations of surfaces
      Cf. GA110+ Map projection
      Cf. QA360 Mapping of regions, conformal representation
   648
      Deformation of surfaces
   648.5
      Web geometry
   649
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   660
      Projective differential geometry
   665
      Symplectic geometry. Contact geometry
      Global differential geometry
      Cf. QA614+ Global analysis. Analysis on manifolds
   670
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   671
      Global Riemannian geometry
   671.5
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      Integral geometry
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      Foundations of geometry
   685
      Non-Euclidean geometry
   689
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   691
      General works
   699
      Popular works. Fiction
      Including Flatland, fourth dimension

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   Class here mathematical works only
   Cf. QC120+ Descriptive and experimental mechanics
   Cf. TA349+ Applied mechanics
   801
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   801.2
      Collected works (nonserial)
   801.5
      Dictionaries and encyclopedias
   801.6
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      History
      Including general history of mechanics
   803
      Newton's Principia and commentaries
   804
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   805
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   807
      Elementary textbooks
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807.5  Addresses, essays, lectures
808  Special aspects of the subject as a whole
808.2  Continuum mechanics
    Cf. QC155.7 Fluid dynamics
808.5  Relativistic mechanics
808.8  Study and teaching
809  Problems, exercises, examinations
810  Handbooks, tables, formulas, etc.

Statics
    Cf. TA351 Engineering
821  General works, treatises, and textbooks
823  Composition and resolution of forces at a point
    Attractions and potential
    Cf. QA404.7+ Potential theory
    Cf. QC570+ Electrostatics
825  General works, treatises, and textbooks
827  Ellipsoids and other special systems
831  Rigid bodies. Forces and couples in three dimensions. Equilibrium
835  Chains and flexible surfaces. Catenary
839  Geometry of masses. Center of mass. Moments of inertia
    Kinematics
    Including composition of motions and displacements, relative motions, moving axes, theory of screws
    Cf. QA623 Roulettes
    Cf. QC231 Kinematics (Physics)
    Cf. TJ175 Kinematics of machinery
841  General works
842  Relativistic kinematics

Dynamics
    Cf. QC133+ Descriptive and experimental mechanics
    Cf. UF820+ Motion of projectiles (Ballistics)
843  Periodicals, societies, congresses, serial publications
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846  Elementary textbooks
Dynamics of a particle
    Cf. QB349+ Celestial mechanics
    Cf. QC174.17.P7 Problem of many bodies (Quantum theory)
851  General works, treatises, and textbooks
852  Special aspects of the subject as a whole
    Including resistance, friction
853  Orbital and constrained motion
855  Motion of surfaces

Rigid dynamics
861  General works, treatises, and textbooks
862.A-Z  Special systems, A-Z
862.G9  Gyroscope
862.P4  Pendulum
862.P5  Pistons
862.P76  Projectiles
862.T7  Top
863  Miscellaneous special topics
    Theory of vibrations. Oscillations
    Cf. QA935+ Vibrations of elastic bodies
865  General works
867  Harmonic motion
Analytic mechanics
Dynamics
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Nonlinear oscillations
General methods in dynamics
Including Lagrange's equations, Hamilton's equations, least action, stability of systems
Mechanics of deformable bodies
Fluid mechanics
Including Lagrange's equations, Hamilton's equations, least action, stability of systems
Fluid dynamics. Hydrodynamics
Cf. TC160+ Hydraulics
General works, treatises, and textbooks
Relativistic fluid dynamics
Kinematics of fluids. Irrotational motions
Magnetohydrodynamics. Magnetofluid dynamics
Cf. QC717+ Ion flow dynamics
Cf. QC718.5.M3 Plasma physics
Cf. QC809.M3 Cosmic physics
Two-phase flow. Multiphase flow
Uniform flow
Jets and cavities
Rotating fluids. Vortex motion
Cf. QB410 Rotating masses of gravitating fluid
Bubbles
Wave propagation in fluids. Theory of wave motion
Cf. QC223 Mathematical theory of sound
Viscous fluids
Non-Newtonian fluids
Cf. QC189.5+ Rheology
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
General works, treatises, and textbooks
Micropolar elasticity
Thermoelasticity
Cf. TA418.24+ Temperature dependent properties of materials
Torsion
Vibrations of elastic bodies. Wave propagation in elastic solids
General works
Impact
Surface waves
Astronomy

1
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2.A1
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2.A2-Z
   By region or country, A-Z
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3
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      Including serial collections issued by individual observatories.
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6
   Star catalogs
      Including zone observations, etc.
      For catalogs of double stars, multiple stars, binary systems see QB821
      For catalogs of variable stars see QB835
   Ephemerides
      For ephemerides of individual planets, see QB611 QB621 etc.
      For ephemerides of planets collectively see QB603.E6
7
   Early through 1800
   1801-
8.A-Z
   Nautical and air (or aeronautical) almanacs. By country, A-Z
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11
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14
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14.2
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14.3
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      Including the Internet
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      Cf. CE21+ Ancient chronology
      Cf. GN799.A8 Astronomy (Prehistoric archaeology)
17
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18
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   Assyro-Babylonian, etc.
      Jewish see QB34
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      Including Arabic astronomy
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25
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      Cf. BF1671+ Occult sciences
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51.3.A-Z
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51.3.L53
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51.3.M38
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52
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54
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   Cf. CB156 Terrestrial, evidence of interplanetary voyages

55
   Astronomical myths, legends, and superstitions
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61
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62
   Outlines, syllabi
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62.5 Problems, exercises, examinations
62.7 Laboratory manuals
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   Cf. TL796.8 Artificial satellites
65 Atlases and charts
66 Astronomical globes
   Cf. GA12 Manual for globes
67 Miscellaneous models
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   Telescopes. Objectives. Mirrors
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   Including transit circle, zenith telescope, visual and photographic
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    Cf. VK583 Sextant

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151
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153
  Personal equation
    Involving apparatus for its determination

154
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    Theory and determination of constant
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161
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163
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175
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   Including determination of geographical positions
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  Cf. VK588+ Hydrographic surveying
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      Cf. QC101 Standards of length
  311
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      Cf. TA583 Plane surveying
  321
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  325
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331 Theory and description of apparatus. Isostasy
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337 General works, treatises, and textbooks
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341 Constant of gravitation. Mean density of the earth
343 Satellite geodesy. Artificial satellites in geodesy
   Cf. TL798.G4 Geodetic satellites
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Cf. QB870+ Stellar spectroscopy

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  498  General works
  498.2.A-Z  By region or country, A-Z
  500  General works, treatises, and advanced textbooks
  500.22  Juvenile works
  500.24  Addresses, essays, lectures
  500.25  Special aspects of the subject as a whole
  500.26.D38  Data processing
Descriptive astronomy
Universe. Space. Space sciences
Special topics, A-Z -- Continued
500.26.I58  International cooperation
500.26.S67  Space optics
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Including exploration of outer space
500.262  General works
500.264  Experiments
500.266.A-Z  By region or country, A-Z
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500.267  General works
500.268  Hubble Space Telescope
500.269  Next Generation Space Telescope
500.28  Northern sky
500.3  Southern sky
Solar system
500.5  Periodicals, societies, congresses, serial publications
501  General works, treatises, and textbooks
501.2  Popular works
501.3  Juvenile works
501.5  Study and teaching. Research
502  Miscellany and curiosa
503  Age of solar system. Origin of solar system
505  Physical conditions
Including atmospheres, resisting medium, etc.
507  Proper motion in space
Solar parallax and related constants
508  General works
Transit of Venus
509  General works, treatises, and textbooks
509.5  1639 transit
511  1761 and 1769 transits
512  1874 transit
513  1882 transit
513.2  2004 transit
515  Transit of Mercury
516  Observations of Mars and asteroids
518  Other methods
Sun
520  Periodicals, societies, congresses, serial publications
521  General works, treatises, and textbooks
521.4  Popular works
521.5  Juvenile works
521.6  Addresses, essays, lectures
522  Tables, etc.
Cf. QB374 Perturbations
523  Mass, diameter, rotation, etc.
Solar activity
524  General works
525  Sunspots
Cf. BF1729.S92 Astrology
526.A-Z  Other special topics, A-Z
526.A37  Active regions
526.C9  Cycles
Energetic particles see QB526.S65
Descriptive astronomy
Solar system
   Sun
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         Other special topics, A-Z -- Continued
 526.F3  Faculae
 526.F6  Flares
 526.F64  Flocculi. Plages
         Plages see QB526.F64
 526.P7  Prominences
 526.S65  Solar energetic particles
 528  Atmosphere, chromosphere
       Corona. Solar wind. Heliosphere
 529  General works
 529.5  Coronal holes
 529.6  Corotating interaction regions
 531  Radiation, temperature, etc.
       Cf. QC910.2+ Solar radiation in meteorology
 539.A-Z  Other special topics, A-Z
 539.C6  Composition
 539.E4  Electric field
 539.E8  Evolution
 539.G7  Granulation
         Helioseismology see QB539.I5
 539.I5  Interior
         Including helioseismology
 539.M23  Magnetic fields
 539.N6  Noise storms
 539.N8  Nuclear reactions
 539.O83  Oscillations
 539.P58  Polarimetry
 539.R3  Radio effects
         Seismology see QB539.I5
 539.S5  Size
 539.S65  Solar neutrinos
 539.S655  Solar x-rays
 539.T4  Terrestrial-solar relations
 540  Miscellany and curiosa
      Solar eclipses
         Including works on solar and lunar eclipses combined
         Cf. BL325.E35 Eclipses (Mythology)
 541  General works, treatises, and textbooks
 541.5  Juvenile works
 542  Through 1799
         Class here works on individual solar eclipses occurring through 1799, as well as works
discussing collectively eclipses in that time period
 1800-
 542.5  Collective
         Individual
 543  1800-1899
         Complete by appending a decimal point and the last two digits of the year of the eclipse
to QB543 followed by author number and date of publication, e.g. QB543.98.I53
         1899, Indian eclipse, 1898; report of the expeditions, c1899
Descriptive astronomy
Solar system
Sun
Solar eclipses
1800-
Individual -- Continued
1900-1999
Complete by appending a decimal point and the last two digits of the year of the eclipse
to QB544 followed by author number and date of publication, e. g. QB544.91.R36
2000-2099
Complete by appending a decimal point and the last two digits of the year of the eclipse
to QB545 followed by author number and date of publication
544
Spectroscopy of sun and eclipses
Moon
Periodicals, societies, congresses, serial publications
General works, treatises, and textbooks
Popular works
Juvenile works
Study and teaching. Research
Explanation
Cf. TL799.M6 Space flights to the moon
Distance, parallax
Rotation, libration, and shape
Temperature, radiation, brightness, phases
Surface, physical condition, meteorology
Lunar geology. Lunar petrology
Cf. TN291.35 Lunar mining
Photographs, maps, drawings
Planets. Planetology
Cf. QB54 Extraterrestrial life
Cf. QB401+ Satellites
Cf. QB500.5+ Solar system
Cf. QB820 Extrasolar planets
Cf. TL799.A+ Flights to special planets
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603.C78 Crust
603.E6 Ephemerides
603.F5 Figures
603.G46 Geology
   Cf. TN291.3+ Space mining
603.I52 Infrared radiation
603.I53 Internal structure
603.I55 Interplanetary medium
   Including interplanetary dust
603.I57 Ionospheres
603.M26 Magnetic fields
603.M3 Mass
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603.M6 Motion
   Including orbits
   For orbits of individual planets see QB371+
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   Cf. QB405 Ring system of Saturn
   Cf. QB407 Ring system of Neptune
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603.S95 Surfaces
603.V65 Volcanism
604 Tables, etc.
605 Photographs, maps, drawings
605.2 Miscellany and curiosan
   Inferior planets
606 General works
607 Intramercurial planets
   Mercury
611 General works
613.A-Z Special topics, A-Z
613.G46 Geology
   Transit of Mercury see QB515
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621 General works
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623.A86 Atmosphere
623.G46 Geology
623.M48 Meteorology
   Transit of Venus see QB509+
623.V65 Volcanism. Volcanoes
623.W56 Winds
Earth as a planet. Astronomical geography
   Cf. QE500+ Geology
630 Periodicals, societies, congresses, serial collections
631 General works, treatises, and textbooks
631.2 Popular works
631.4 Juvenile works
632 Origin
633 Rotation
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Planets. Planetology
Earth as a planet. Astronomical geography -- Continued

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Photographs from space
Seasons
Cf. GR930 Folklore
637.2
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637.4
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637.7
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637.8
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638
Miscellany and curiosa
638.8
End of the world

Superior planets
Including other objects beyond Earth
For their satellites, see QB403+

639
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641
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643.D87
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643.G73
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643.W56
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671
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681
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683.A-Z
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691
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693.A-Z
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Solar system
Planets. Planetology
Superior planets
Outer planets
Neptune
Special topics, A-Z
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Trans-Neptunian objects
Cf. QB701+ Pluto

694 General works
695 Kuiper Belt
698 Dwarf planets
698 General works
701 Pluto
703.A-Z Special topics, A-Z
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705 Ceres
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Cf. QB357 Calculation of orbits
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721.5 Juvenile works
721.6 Addresses, essays, lectures
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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
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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
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Comets -- Continued

726 1800-1899
Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB726 followed by author number and date of publication, e.g. QB726.61.K8, Kreutz, Heinrich, Untersuchungen über die Bahn des grossen Kometen von 1861

727 1900-1999
Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB727 followed by author number and date of publication

728 2000-2099
Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB728 followed by author number and date of publication

729 Distribution of comets
731 Nature and constitution (before the spectroscope)
732 Nature and constitution (modern views)
738 Meteoroids
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743 Methods of observation and geometrical topics
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745 November
746 August
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749 General works
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753 Remarkable meteors, fireballs
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756.C45 Chinguetti meteorite
756.F47 Fermo meteorite
756.K87 Kurinelli meteorite
756.M4 Meteor Crater (Ariz.)
756.O74 Orgueil meteorite
756.P67 Port Orford meteorite
756.S55 Sikhote-Alin meteorite
756.T58 Thuathe meteorite
756.T8 Tunguska meteorite
756.V74 Vredefort Dome (South Africa)
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Cf. QB6 Star catalogs

Cf. QB870+ Stellar spectroscopy

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801.7

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802

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Cf. QB63 Stargazers' guides

803

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805

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Cf. QB823 Particular double and multiple stars

Cf. QB837 Particular variable stars

Cf. QB883 Spectra of special stars

806

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Cf. QB135 Astronomical photometry

808

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810

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- Stellar oscillations. Astroseismology
- Parallax and distance
- Masses
- Magnitudes. Photometric catalogs
- Color
  - Cf. QB829 Color of double stars
- Proper motion
- Stellar oscillations. Astroseismology
- Parallax and distance
- Masses
- Magnitudes. Photometric catalogs
- Color

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
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    - Cf. QB421 Theory
    - Cf. QB903 Spectroscopy
821 General works, treatises, and textbooks
  - Including observations, catalogs
823 Particular stars (not A-Z)
829 Colors of double stars
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- Cf. QB895 Spectroscopy
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843.D85 Dwarf novae
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853  General works
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855  General works
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      Including proto-planetary nebulae
855.55 Gaseous nebulae
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855.9.H67 Horsehead Nebula
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857.5.M34 Magnetic fields
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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
      General works
      Laboratory blanks
      Advanced
  39
    Physical measurements (General)
      Including theory and methods
      Cf. QC81+ Weights and measures
      Cf. T50 Technical measurement
  39.5
    Juvenile works
  41
    Laboratory technique
  By region or country
  United States
  44
    General works
  45.A-Z
    By region or state, A-Z
      Subarrange each state by Table Q7
  47.A-Z
    Other regions or countries, A-Z
      Subarrange each country by Table Q7
  48
    Developing countries
  Laboratories
    Cf. QC100.A2+ Standardizing bureaus
    Cf. QC541.A1+ Electric laboratories
  51.A1
    General works
  51.A3-Z
    By region or country, A-Z
      Subarrange each country by Table Q6
  52
    Data processing
Instruments and apparatus (General)
   For instruments of special fields, see the field
   Cf. QC100.5+ Weights and measures
   Cf. QC101+ Instruments for measurement of length, area, weight, etc.
   Cf. QC370.5+ Optical instruments
   Cf. QC875.5+ Meteorological instruments

53 General works
55 Juvenile works

Museums. Exhibitions
60.A1 General works
60.A2-Z By region or country, A-Z
   Subarrange each country by Table Q5

61 Handbooks, tables, formulas, etc.
71 Addresses, essays, lectures

Force and energy (General)
   Cf. QC310.15+ Thermodynamics
   Philosophy see QA843+

72 History
73 General works, treatises, and textbooks
73.4 Juvenile works
73.6 Study and teaching. Research
73.8.A-Z Special topics, A-Z
73.8.C6 Conservation of energy
73.8.C65 Correlation of forces
73.8.E53 Energy transfer
73.8.M4 Mechanical advantage
73.8.W65 Work

75 Miscellany and curiosia
   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
   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

111  Density and specific gravity
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
129  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
159 Vortex flows
   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
162 Adsorption and absorption
   Including occlusion
163 Compressibility
163.5 Diffusion
164 Expansion
164.5 High temperatures
   Occlusion see QC162
165 Pressure
   Including manometers, etc.
165.3 Optical properties
165.5 Thermal properties
   Vacuum
   Including vacuum production, etc.
   Cf. TJ940+ Vacuum technology
166 General works
166.5 Ultrahigh vacuum
167 Viscosity
Gas dynamics. Motion of gases
   Including thermodynamic aspects
   Cf. QA930 Analytic mechanics
   Cf. QC717+ Ion flow dynamics
   Cf. TJ1025+ Mechanical engineering
   Cf. TL570+ Aerodynamics
167.5 Periodicals, societies, congresses, serial publications
168 General works, treatises, and textbooks
168.2 Addresses, essays, lectures
Study and teaching. Research
168.4 General works
168.6 Problems, exercises, etc.
Descriptive and experimental mechanics
  Fluids. Fluid mechanics
    Gas dynamics. Motion of gases -- Continued
    Technique
  168.7
    Handbooks, tables, formulas, etc.
  168.8
    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
    General works, treatises, and textbooks
  171
    Through 1969
    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
Popular works

174.125
 Addresses, essays, lectures

174.13
Special aspects of the subject as a whole
Study and teaching. Research

174.14
General works

174.15
Problems, exercises, examinations

174.17.A-Z
Special topics, A-Z

174.17.A53
Angular momentum

174.17.A66
Approximation theory
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.S78 Superposition
174.17.S9 Symmetry. Invariance
    Including supergravity
    Cf. QC793.3.S9 Elementary particle physics
174.17.T67 Transactional interpretation
    Teleportation see QC174.17.Q38
174.17.T7 Transformations
174.17.V35 Variational principles
174.17.V4 Vector analysis
Wave mechanics
    Cf. QC793.3.W3 Elementary particle physics
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
    Nonlinear
    Nonrelativistic
    Relativistic
    Special topics, A-Z
    Atomic and molecular orbitals see QD461
174.26.B58 Bivectors
    Spinor analysis see QA433
174.26.W28 Wave equations
    Including solitons
174.26.W3 Wave functions
Matrix mechanics
    Cf. QC793.3.M36 Elementary particle physics
174.3.A1 Periodicals, societies, congresses, serial publications
174.3.A6-Z General works, treatises, and textbooks
174.32 Handbooks, tables, formulas, etc.
174.35.A-Z Special theories, A-Z
174.35.R2 R-matrix theory
174.35.S2 S-matrix theory
Quantum statistics
    Cf. QC793.3.S77 Statistical mechanics of elementary particles
174.4.A1 Periodicals, societies, congresses, serial publications
174.4.A2 Collected works (nonserial)
174.4.A6-Z General works, treatises, and textbooks
174.42 Addresses, essays, lectures
174.43 Special aspects of the subject as a whole
Quantum field theory
    Cf. QC679+ Quantum electrodynamics
    Cf. QC793.3.M36 Matrix theories of elementary particles
174.45.A1 Periodicals, societies, congresses, serial publications
174.45.A2 Collected works (nonserial)
174.45.A6-Z General works, treatises, and textbooks
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. QC318.063 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
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Cf. QH212.I5 Interference microscopes

410.9
Periodicals, societies, congresses, serial publications

411
General works, treatises, and textbooks

411.4
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414.8
Periodicals, societies, congresses, serial publications

414.9
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415
General works, treatises, and textbooks

416
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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
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426.2
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426.4
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426.6
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426.8.A-Z
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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
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427.8.A-Z
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427.8.C7
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427.8.C73
Critical scattering

427.8.M5
Mie scattering

427.8.R3
Rayleigh scattering

427.8.S64
Speckle

Cf. TA1671+ Lasers and laser applications

Dispersion

431
General works

435
Anomalous dispersion
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Physical optics -- Continued

437
  Incidence
    Including grazing incidence
  Polarization
    Cf. QD481 Stereochemistry
    Cf. TP382 Saccharimetry

440
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441
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442
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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
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446.3.A-Z
  Special topics, A-Z
446.3.A54
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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
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450.15
  Collected works (nonserial)
450.3
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450.5
  History
451
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451.2
  Pictorial works and atlases
451.4
  Addresses, essays, lectures
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451.6 Special aspects of the subject as a whole
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451.8 General works

451.82 Laboratory manuals

452 Data processing

452.5 Instruments and apparatus

453 Handbooks, tables, formulas, etc.
  Including wavelength tables

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

454.A2 Absorption spectra

454.A25 Accelerator mass spectrometry

454.A7 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+
  Gas spectra

454.G3 Hadamard transform spectroscopy
  Hadron spectroscopy see QC793.5.H32+

454.H33 High resolution spectroscopy

454.H618 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

454.O68 Optogalvanic spectroscopy
  Particle spectra see QC793.5.A22+

454.P46 Photodetachment threshold spectroscopy

454.P48 Photoelectron spectroscopy
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454.R3
   Radiofrequency spectroscopy
454.R36
   Raman spectroscopy
454.R4
   Reflectance spectroscopy
454.R47
   Resonance ionization spectroscopy
454.R5
   Resonant ultrasound spectroscopy
   Rotational spectra see QD481
   Scintillation spectroscopy see QC491.5+
   Solar spectroscopy (Meteorology) see QC910.2+
   Solar spectroscopy (Optics) see QC455
454.S7
   Spark spectroscopy
454.T47
   Terahertz spectroscopy
454.T75
   Time-of-flight mass spectroscopy see QC454.M3
   Ultraviolet spectroscopy see QC459+
454.V5
   Vibrational spectra
   X-ray spectroscopy see QC482.S6
454.Z44
   ZEKE spectroscopy
455
   Solar spectrum
   Including wavelength measurements and maps
   For works relating to the constitution and physical condition of the sun see QB551
457
   Infrared spectrum
   Cf. TA1570+ Infrared technology
   Ultraviolet spectrum
   Cf. TA1501+ Applied optics. Lasers
459
   General works
459.5
   Far ultraviolet spectrum
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462.M47
   Metal vapors
462.M49
   Metals
462.R2
   Rare earths
462.T85
   Trace elements
462.T86
   Transition metals
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462.A-Z
   General works, treatises, and textbooks
462.B5
   Handbooks, tables, formulas, etc.
463.A-Z
   Special organic compounds, A-Z
463.A4
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463.A47
   Alkaloids
463.A8
   Amines
463.A84
   Anthracene and derivatives
463.A86
   Anthraquinones
463.B4
   Benzene
463.B5
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463.C3
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463.C5
   Chelates
463.C54
   Chlorophyll
463.C57
   Chroman
463.C78
   Coordination compounds
463.E68
   Essences and essential oils
463.E69
   Esters
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Spectra of special substances  
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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
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Cf. QC401+ Theories of light

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Cf. QC976.A3 Airglow
Cf. QD505.8 Chemiluminescence

476.4
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Cf. QC787.S34 Scintillation counters
476.7 General works
476.75 Inorganic scintillators
476.77 Organic scintillators
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477 General works
477.2 Instruments and apparatus
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477.4 Sensitized fluorescence
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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
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479.5 Cathodoluminescence
480 Electroluminescence
480.2 Sonoluminescence
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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
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Cf. RC78.5 Radiography
Cf. RM862.5 Radiotherapy
Cf. TR750 Applied photography
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482.D5 Diffraction
482.G68 Grenz rays
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482.S3 Scattering
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482.2 General works
482.3 Experiments
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484 Blackbody radiation
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484.2 Periodicals, societies, congresses, serial publications
484.3 General works, treatises, and textbooks
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   Cf. QB463+ Nuclear astrophysics
   Cf. QC770+ Nuclear physics
   Cf. QC809.V3 Van Allen radiation belts
484.8
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484.85
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  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
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494.8  Early works through 1800
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495.15  Elementary textbooks
495.2  Pictorial works and atlases
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495.8  Special aspects of the subject as a whole
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496  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 curiosities
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
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      515.O4  Ohm
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516  Through 1700
517  1701-1850
      General works, treatises, and advanced textbooks
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521 Descriptive and experimental works
522 1970-
523 Elementary textbooks
527 Popular works
527.2 Juvenile works
527.4 Addresses, essays, lectures
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528.E4 Electromechanical analogies
Maxwell's equations see QC669+
528.V4 Vector theory
529 Handbooks, tables, formulas, etc.

Study and teaching. Research

For programmed texts see QC518+
530 General works
531 Outlines, syllabi
532 Problems, exercises, examinations
533 Experiments
534 Laboratory manuals

Electric measurements

Cf. TK275+ Electrical engineering
535 General works
536 Electric units
537 Standards

Laboratories

541.A1 General works
541.A3-Z By region or country, A-Z
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Instruments and apparatus (General)

543 General works, treatises, and textbooks
544.A-Z Special instruments, A-Z
(544.A5) Ammeter
see QC645
(544.C3) Cathode ray tubes
see TK7871.73
Coils see QC645
544.C8 Current balance
Cyclotrons see QC787.C8
Decremeters see QC667+
Electric meters see TK301+
544.E3 Electrodynamometer
544.E4 Electrometer
544.E45 Electrophori
544.E5 Electrostatic lenses
544.G2 Galvanometer
(544.G3) Gas tubes
see TK7871.8+
544.P5 Phonic wheel
544.P8 Potentiometer
544.Q3 Quadruple lenses
(544.V3) Vacuum tubes
see TK7871.72+
Electricity and magnetism

Electricity -- Continued

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
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571.5
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572
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572.4
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573
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577
Electrocapillary phenomena

581.A-Z
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581.E4
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581.I5
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581.P6
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581.V6
Volta effect

Dielectrics
Cf. TK3401+ Electric insulation

584
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584.2
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585
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585.4
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585.7.C6
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585.7.E43
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585.7.L6
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Cf. TK2805 Condensers (Dynamoelectric machinery)
Cf. TK7872.C65 Condensers (Electronics)

595
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Cf. QD939 Electric properties of crystals
Cf. TK7872.O7 Oscillators

595.5
Piezoelectricity
Cf. TK7872.P54 Piezoelectric devices
Electricity and magnetism

Electricity

Electrostatics. Frictional electricity -- Continued

Ferroelectricity

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

596 Periodicals, societies, congresses, serial publications
596.5 General works, treatises, and textbooks
596.9 Addresses, essays, lectures

Electric current (General)

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

601 General works
607 Ohm's law

610 Conduction in gases and vapors

see QC710+

Electric conductivity

Cf. TK3301+ Electric conductors

610.3 Periodicals, societies, congresses, serial publications
610.4 General works, treatises, and textbooks

Electric resistance

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

610.6 General works
610.7 Magnetoresistance

Semiconductor physics

Class here general works on the physical properties of semiconductor materials

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

Cf. QC176.8.E4 Solid-state electronics

610.9 Periodicals, societies, congresses, serial publications
610.92 Collected works (nonserial)
610.94 Nomenclature, terminology, notation, abbreviations
610.96 History
611 General works, treatises, and textbooks
611.2 Addresses, essays, lectures
611.24 Special aspects of the subject as a whole

Study and teaching. Research
611.26 General works
611.28 Problems, exercises, examinations
611.3 Laboratory manuals
611.4 Instruments and apparatus
611.45 Handbooks, tables, formulas, etc.
611.6.A-Z Special topics, A-Z
611.6.A36 Acoustic properties
611.6.D4 Defects
611.6.D5 Diffusion
611.6.D6 Doping
611.6.E43 Electron-hold droplets
611.6.E45 Electron transport

Energy-band theory see QC176.8.E4
611.6.G3 Galvanomeric effects
611.6.H6 Holes
611.6.H67 Hot carriers
611.6.J85 Junctions
Electricity and magnetism
Electricity
Electric current (General)
Electric conductivity
Semiconductor physics
Special topics, A-Z -- Continued

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
611.6.S9 Reliability see TK7871.85+
611.6.T4 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 Chalcopryrite
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.S6 Superlattices
611.8.T44 Tellurium
611.8.W53 Wide gap semiconductors

Superconductivity physics
Cf. QC175.4+ Superfluid physics

611.9 Periodicals, societies, congresses, serial collections
611.917 History
611.92 General works, treatises, and textbooks
611.922 Juvenile works
611.924 Handbooks, tables, formulas, etc.
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Superconductivity physics -- Continued

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
611.98.V35 Vanadium
611.98.Z56 Zinc
612.A-Z Other special topics, A-Z
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Other special topics, A-Z -- Continued

Hall effect

Cf. TK7872.H3 Hall effect devices

Photoconductivity

Cf. TK8330+ Photoconductive cells

Potential barrier

Skin effect

Superconductivity see QC611.9+

Electric resonance

Cf. QC762 Nuclear magnetism
Cf. QC794.6.R4 Nuclear interaction

Measurements of currents

Including ammeters, voltameters

Electromotive force

Including voltmeters

Thermoelectricity. Thomson effect. Peltier effect

Cf. TK2950+ Applied thermoelectricity

General works

Heating effects of currents

Electrokinetics

Electrodynamics

Cf. QA920 Magnetohydrodynamic theory
Cf. QC717+ Ion flow dynamics
Cf. QC718.5.M36 Magnetohydrodynamics (Plasma physics)
Cf. QC809.E55 Geophysics

Periodicals, societies, congresses, serial publications

Collected works (nonserial)

Dictionaries and encyclopedias

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

Inductance. Induction

Alternating currents (Theory)

Cf. TK1141+ Alternating current engineering
Cf. TK2711+ Alternating current machinery

Electric corona

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Instruments and apparatus

Special topics, A-Z

Discharge

Pressure

Electric coils

Including induction coils

Cf. TK2391 Electric coils (Dynamoelectric machinery)
Cf. TK2805 Condensers (Dynamoelectric machinery)
Cf. TK7872.C56 Electronics
Electricity and magnetism
Electricity
  Electrodynamics -- Continued
    Vacuum polarization
Electric oscillations. Electric waves
  Including electromagnetic waves
    Cf. QB460+ Astrophysics
    Cf. QC809.E55 Cosmic electrodynamics

660.5
  Periodicals, societies, congresses, serial publications
661
  General works, treatises, and textbooks
662
  Addresses, essays, lectures
665.A-Z
  Special topics, A-Z
665.D3
  Damping
665.D5
  Diffraction
665.D54
  Diffusion
665.E36
  Electric displacement
665.E38
  Electric fields
665.E4
  Electromagnetic fields
665.E45
  Electromechanical analogies
665.P5
  Photoabsorption
665.P6
  Polarization
665.Q3
  Quadrupole moment
665.S3
  Scattering
665.T7
  Transmission
665.V4
  Velocity
  Study and teaching. Research
    General works
666
  Problems, exercises, examinations
  Instruments and apparatus
    Including decreimeters
667
  General works
668.A-Z
  Special equipment, A-Z
668.A54
  Anechoic chambers. Reverberation chambers
    Reverberation chambers see QC668.A54
  Electromagnetic theory
    Including Maxwell's equations
669
  Periodicals, societies, congresses, serial publications
670
  General works, treatises, and textbooks
  Study and teaching. Research
670.7
  General works
670.75
  Problems, exercises, examinations
671
  Aberrations and moving media
    Cf. QB163 Correction of astronomical observations
  Electrooptics (General)
    Cf. TA1750+ Applied electrooptics
673
  General works
673.5.A-Z
  Special topics, A-Z
673.5.K4
  Kerr effect
  Magnetooptics (General)
675
  General works
675.5.A-Z
  Special topics, A-Z
675.5.F3
  Faraday effect
675.5.Z4
  Zeeman effect
675.8
  Microwave optics (General)
Electricity and magnetism

Electricity

Electric oscillations. Electric waves -- Continued

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
    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
Electricity and magnetism
   Electricity
      Electric discharge
         Ions. Ionization. Thermionic emission (General) -- Continued
   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
   711.8.G5
      Glow discharge
   711.8.P6
      Polarization
   711.8.R35
      Radio frequency discharges
Electricity and magnetism

Electricity

Electric discharge -- Continued

Photoelectricity. Photoelectric cells

- Including other effects of light, X-rays, etc., on discharge
- Cf. QC391 Photometry
- Cf. QC793.5.P42+ Photons
- Cf. QC794.8.P4 Photonuclear interactions
- Cf. QD701+ Photochemistry
- Cf. TK8300+ Optoelectronic devices. Photoelectronic devices

715

General works
715.15
Photoemission
715.17
Photoferroelectric effect
715.2
Photoelectric properties of special substances

- Including sensitivity
715.4
Photoelectric cells

- Including photovoltaic effect

Ion flow dynamics
717

General works
717.5.A-Z
Special topics, A-Z
717.5.I6
Ionic mobility

Plasma physics. Ionized gases

- Cf. QA920 Magnetohydrodynamics
- Cf. QC790.95+ Nuclear fusion
- Cf. QC809.P5 Plasma (Cosmic physics)
- Cf. TA2001+ Plasma engineering
- Cf. TK2970 Magnetohydrodynamic generators
- Cf. TL783.6 Plasma rockets

717.6
Periodicals, societies, congresses, serial publications
717.8
Collected works (nonserial)
718
General works, treatises, and textbooks
718.15
Addresses, essays, lectures
718.4
Special aspects of the subject as a whole
718.5.A-Z
Special topics, A-Z

- Accelerators see QC718.5.M36
- Collisions with matter see QC718.5.P5
- Collisions with particles see QC718.5.P55
- Conductivity see QC718.5.T7

718.5.C65
Confinement

- Controlled fusion see QC791.7+
718.5.C9
Cyclotron waves
718.5.D38
Dense plasma focus
718.5.D4
Density
718.5.D5
Diagnostics

- Diffusion see QC718.5.T7
718.5.D7
Drift
718.5.D84
Dusty plasmas
718.5.D9
Dynamics
718.5.E37
Electric fields
718.5.E4
Electrodynamics
718.5.E45
Electromagnetics

- Electron oscillations and resonances see QC718.5.W3
718.5.E48
Electrostatics
718.5.E66
Equilibrium

- Including nonequilibrium
718.5.G95
Gyrotrons
Electricity and magnetism

Electricity

Plasma physics. Ionized gases

Special topics, A-Z -- Continued

Heat conduction see QC718.5.T7

718.5.H5 High temperature
718.5.H9 Hydrodynamics

Instabilities see QC718.5.S7

Ion waves see QC718.5.W3

Kinetics see QC718.5.T5

718.5.L3 Laser-produced plasmas
718.5.L6 Low temperature
718.5.M3 Magnetic fields
718.5.M36 Magnetohydrodynamics

Including plasma accelerators

Cf. QA920 Magnetohydrodynamic theory

718.5.M5 Microwaves
718.5.N4 Neutrality

Including nonneutrality

Nonequilibrium see QC718.5.E66

718.5.O6 Optical phenomena

Oscillations see QC718.5.W3

718.5.P45 Pinch effect

Plasma accelerators see QC718.5.M36
718.5.P5 Plasma reactions with matter
718.5.P55 Plasma reactions with particles

Plasma resonance see QC718.5.W3

718.5.P58 Plasmoids
718.5.Q17 Q-machines
718.5.R3 Radiation
718.5.S4 Sheaths

Cf. TL3028 Space vehicle communication systems

Shock waves see QC718.5.W3

718.5.S6 Spectroscopy
718.5.S7 Stability

Including instability

718.5.S78 Statistical behavior
718.5.S83 Strongly coupled plasmas
718.5.T5 Thermodynamics
718.5.T7 Transport

Including diffusion, conductivity, heat conductance, velocity

718.5.T8 Turbulence

Velocity see QC718.5.T7
718.5.W3 Waves

Study and teaching. Research
718.6 General works
718.612 Problems, exercises, examinations
718.613 Experiments

Laboratories
718.614 General works
718.615.A-Z Individual laboratories, A-Z
718.62 Technique
718.64 Instruments and apparatus
718.7 Handbooks, tables, formulas, etc.
718.8 Miscellany and curiosa
Electricity and magnetism
Electricity -- Continued

(721) Physics of electrons, protons, and other particles

see QC793+

Magnetism

Cf. QB462.8 Cosmic magnetic fields
Cf. QC176.8.M3 Solid-state physics
Cf. QC718.5.M36 Plasma physics
Cf. QC811+ Geomagnetism
Cf. QD591 Magnetochemistry

750 Periodicals, societies, congresses, serial publications
750.15 Collected works (nonserial)
750.3 Philosophy. Theory
750.4 History
751 Early works through 1800
General works, treatises, and textbooks
753 1801-1969
753.2 1970-
753.5 Popular works
753.7 Juvenile works
753.8 Recreations
  Including amateur experiments
753.9 Addresses, essays, lectures
754 Special aspects of the subject as a whole
754.2.A-Z Special topics, A-Z
754.2.B35 Band theory
754.2.E3 Electromechanical analogies
754.2.H9 Hysteresis
754.2.M3 Magnetic fields
  Cf. QC809.M25 Cosmic magnetism
754.2.M32 Magnetic force
754.2.M33 Magnetic induction
754.2.M333 Magnetic ions
754.2.M36 Magnetic structure
754.2.M34 Magnetization
754.2.M35 Magnetostatics
754.2.M36 Magnetostriiction
754.2.P4 Permeability
754.2.P45 Photomagnetic effect
754.2.P6 Potential
754.2.Q34 Quantum theory
754.2.S8 Susceptibility
Therapeutic use see RZ422

Study and teaching. Research
755 General works
755.2 Problems, exercises, examinations
755.3 Experiments
  Cf. QC753.8 Amateur experiments
755.4 Laboratory manuals
Magnetic measurements
755.6 General works
755.65 Units and standards
Instruments and apparatus
755.67 General works, treatises, and textbooks
755.675.H9 Hysteresigraphy
Electricity and magnetism
   Magnetism
      Instruments and apparatus -- Continued
      Handbooks, tables, formulas, etc.
      Miscellaneous and curiosities
   Magnets
      Periodicals, societies, congresses, serial publications
      General works, treatises, and textbooks
      Juvenile works
      Addresses, essays, lectures
      Bonded magnets
      Permanent magnets
      Wiggler magnets
   Electromagnetism
      Cf. QH656 Magnetic fields (Cytology)
      Periodicals, societies, congresses, serial publications
      History
      General works, treatises, and textbooks
      Juvenile works
      Addresses, essays, lectures
      Special topics, A-Z
      Mathematics
      Study and teaching. Research
      General works
      Problems, exercises, examinations
      Data processing
      Handbooks, tables, formulas, etc.
   Electromagnets
      Cf. QC787.C3 Calutrons
      Cf. TJ1366 Lifting magnets
      Cf. TK454.4.E5 Electrical engineering
   Paleomagnetism see QE501.4.P35
   Ferrimagnetism
      Cf. QC766.F3 Ferrites
   Ferromagnetism. Antiferromagnetism
   Thermomagnetism
   Nuclear magnetism
      General works
      Nuclear magnetic resonance
      Other special topics, A-Z
      Acoustic nuclear magnetic resonance
      Electron nuclear double resonance
      Giant nuclear magnetic resonance
      Hyperfine interactions
      Magnetic resonance imaging
      Relaxation
      Spin-lattice relaxation
      Spin waves
      Translational motion
   Paramagnetism
      General works
      Electron paramagnetic resonance
Electricity and magnetism

Magnetism -- Continued

764
   Diamagnetism
   Magnetic materials
      Cf. TK454.4.M3 Electrical engineering

764.5
   Periodicals, societies, congresses, serial publications

764.52
   Dictionaries and encyclopedias

765
   General works

766.A-Z
   Special magnetic materials, A-Z
      Alloys, Magnetic see QC766.M34

766.A4
   Amorphous substances

766.C6
   Cobalt

766.F3
   Ferrites
      Fluids, Magnetic see QC766.M36

766.I7
   Iron

766.M34
   Magnetic alloys

766.M36
   Magnetic fluids

766.M4
   Metallic oxides

766.R3
   Rare earths

766.T56
   Thorium

Nuclear and particle physics. Atomic energy. Radioactivity
   Cf. QC170+ Constitution of matter. Atomic physics
   Cf. QD601+ Radiochemistry
   Cf. TK9001+ Nuclear engineering
   Cf. UG1282.A8 Atomic bombs

770
   Periodicals, societies, congresses, serial publications

771
   Collected works (nonserial)

772
   Dictionaries and encyclopedias
   Communication of information

772.2
   General works

772.4
   Information services
   History

773.A1
   Development and projects leading to production of first atomic bombs

773.A2-Z
   General works

773.3.A-Z
   By region or country, A-Z
   Biography

774.A2
   Collective

774.A3-Z
   Individual, A-Z

774.2
   Directories

776
   General works, treatises, and advanced textbooks

777
   Elementary textbooks

778
   Popular works

778.5
   Juvenile works

780
   Addresses, essays, lectures

782
   Special aspects of the subject as a whole

782.5.A-Z
   Special topics, A-Z

782.5.P4
   Photography
      Cf. QC787.N78 Nuclear emulsions

783
   Handbooks, tables, formulas, etc.
   Data processing

783.3
   General works, treatises, and textbooks

783.4
   Laboratory manuals

783.5
   Pictorial works and atlases
   Study and teaching

783.8
   General works

783.85
   Problems, exercises, examinations
Nuclear and particle physics. Atomic energy. Radioactivity
Study and teaching -- Continued

784 Laboratory manuals
784.5 Atomic and nuclear measurements
  Including atomic units

Instruments and apparatus
785.5 Periodicals, societies, congresses, serial publications
785.7 Collected works (nonserial)
786 General works, treatises, and textbooks
786.2 Addresses, essays, lectures
  Nuclear reactors for research. Reactor physics
    Cf. TK9202+ Nuclear reactor engineering

786.4 Periodicals, societies, congresses, serial publications
  History
786.42 General works
786.43.A-Z By region or country, A-Z
786.45 Directories
786.5 General works, treatises, and textbooks
786.55 Addresses, essays, lectures
786.6.A-Z Special topics, A-Z
  Accidents see TK9001+
786.6.C6 Computer programs
786.6.D4 Design and construction
  Fuel elements see TK9360+
786.6.K5 Kinetics
786.6.P68 Power distribution
786.6.S73 Statistical methods
786.6.T4 Thermal neutrons
  Cf. QC793.5.T42+ Elementary particle physics
Study and teaching. Research
786.7 General works
786.75 Experiments
786.8 Handbooks, tables, formulas, etc.
787.A-Z Other instruments, A-Z
787.B4 Betatrons
  Bevatron see QC787.S9
787.B8 Bubble chambers
787.C3 Calutrons
787.C56 Cloud chambers
787.C58 Coincidence circuits
  Cold cathode tubes see TK7871.84.C6
787.C59 Colliders
787.C6 Counters
  Cf. TK9180 Nuclear engineering
787.C8 Cyclotrons
787.D35 Damping rings
787.D74 Drift chambers
787.E37 Electret ionization chambers
787.E39 Electron accelerators
787.E4 Electrostatic accelerators
787.E42 Electrostatic analyzers
787.F75 Fricke dosimeters
787.G32 Gamma ray detectors
787.G34 Gas calorimeters
787.G4 Geiger-Müller counters
787.H53 High-brightness accelerators
Nuclear and particle physics. Atomic energy. Radioactivity

Instruments and apparatus

Other instruments, A-Z -- Continued

787.H54 High pressure ionization chambers
787.I6 Ionization chambers
787.K55 Klystrons
787.L5 Linear accelerators
787.L53 Linear colliders
787.M3 Magnetic analyzers
787.N78 Nuclear emulsions
787.N83 Nuclear track detectors
787.O6 Optical instruments
787.P3 Particle accelerators (General)
    Cf. TK9340 Nuclear engineering
787.P34 Particle analyzers
    Photoelectric multipliers see TK8314
787.P46 Photon detectors
787.P69 Proportional counters
787.P7 Proton accelerators
787.P73 Proton antiproton colliders
    Including proton synchrotron colliders
787.P8 Pulse height analyzers
787.R43 Recirculating electron accelerators
787.S3 Scanning systems
787.S34 Scintillation counters
787.S4 Sector focused cyclotrons
787.S45 Self-quenching counters
787.S55 Spark chambers
787.S6 Spectrometer
787.S8 Storage rings
787.S83 Supercolliders
    Including Superconducting Super Collider
787.S85 Synchrocyclotrons
787.S9 Synchrotrons
787.T35 Targets
787.V3 Van de Graaff generators
787.V45 Vertex detectors

Research

Including laboratories and projects

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

Nuclear fission

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

Nuclear fission -- Continued

**790.8.A-Z**  
Fission of specific elements, A-Z (Table Q1)

Nuclear fusion

Cf. UG1282.A8 Hydrogen bomb

**790.95**  
Periodicals, societies, congresses, serial publications

**790.97**  
Collected works (nonserial)

**791**  
General works, treatises, and textbooks

**791.4**  
Popular works

**791.5**  
Juvenile works

**791.6**  
Addresses, essays, lectures

Controlled fusion

**791.7**  
Periodicals, societies, congresses, serial publications

**791.72**  
Collected works (nonserial)

**791.725**  
Directories

**791.73**  
General works, treatises, and textbooks

**791.735**  
Popular works

**791.74**  
Addresses, essays, lectures

Study and teaching. Research

**791.745**  
General works

By region or country

United States

**791.75**  
General works

**791.755.A-Z**  
By region or state, A-Z

**791.76.A-Z**  
Other regions or countries, A-Z

**791.77.A-Z**  
Special devices, A-Z

**791.77.S7**  
Stellarators

**791.775.A-Z**  
Special topics, A-Z

**791.775.C64**  
Cold fusion

Inertial confinement fusion see QC791.775.P44

**791.775.L37**  
Laser fusion

**791.775.P44**  
Pellet fusion. Inertial confinement fusion

**791.8.A-Z**  
Other special topics, A-Z

Neutron transport theory see QC793.3.T7

Thermonuclear reactions see QC791.7+

Atomic energy

Cf. BR115.A83 Moral and religious aspects

Cf. HD9698+ Economic aspects

Cf. QC913.2.A8 Meteorological aspects

Cf. TK9001+ Atomic power

**791.9**  
Periodicals, societies, congresses, serial publications

**791.915**  
Collected works (nonserial)

**791.92**  
Dictionaries and encyclopedias

Communication of information

**791.93**  
General works

**791.94**  
Information services

Nuclear regulatory commissions

**791.948**  
General works

**791.95.A-Z**  
By region or country, A-Z

**791.96**  
History

**791.98**  
Directories

**792**  
General works, treatises, and textbooks

**792.4**  
Popular works

**792.5**  
Juvenile works

**792.6**  
Addresses, essays, lectures
Nuclear and particle physics. Atomic energy. Radioactivity

Atomic energy -- Continued

792.7 Special aspects of the subject as a whole
  Including peaceful uses of atomic energy
  Study and teaching. Research

792.72.A-Z General works
792.72.Z9 Catalogs of audiovisual materials
  By region or country
    United States

792.74 General works
792.76.A-Z By region or state, A-Z
792.78.A-Z Other regions or countries, A-Z

Laboratories

792.79 General works
792.8.-Z By region or country, A-Z
  Subarrange each country by Table Q6

Elementary particle physics
  Cf. QC170+ Structure of matter and other theories

793 Periodicals, societies, congresses, serial publications
793.12 Collected works (nonserial)
793.13 Philosophy
793.15 Classification
793.16 History
793.2 General works, treatises, and advanced textbooks
793.24 Elementary textbooks
793.26 Popular works
793.27 Juvenile works
793.28 Addresses, essays, lectures
793.29 Special aspects of the subject as a whole
793.3.A-Z Special topics, A-Z
793.3.A4 Algebra of currents
  Cf. QC174.52.A43 Quantum field theory
  Algebraic geometry see QC793.3.G46

793.3.A5 Angular momentum
793.3.B4 Particle beams
793.3.B5 Binding energy. Nuclear forces
793.3.B6 Bootstrap theory
793.3.C53 Charm
793.3.C54 Chirality
793.3.C56 Collective excitations
793.3.C57 Color confinement
793.3.C58 Conservation laws
793.3.C6 Cosmic ray and ionospheric influences
793.3.C67 Coupling constants
793.3.D4 Decay. Lifetime
793.3.D43 Degree of freedom
793.3.D5 Diffraction
793.3.D55 Diffusion
793.3.D9 Dynamics
793.3.E4 Electrodynamics
793.3.E45 Electromagnetism
  Electronic data processing see QC793.47.E4
793.3.E5 Energy ranges
  Energy spectra see QC793.5.A22+
  Exciton theory see QC794.6.E9
793.3.E93 Exotic nuclei
Nuclear and particle physics. Atomic energy. Radioactivity
Elementary particle physics
Special topics, A-Z -- Continued

793.3.F5
Field theories
Flavor see QC793.3.Q37

793.3.G38
Gauge fields
Including gauge theories

793.3.G46
Geometry, Algebraic

793.3.H44
Helicity

793.3.H5
High energy physics
Invariance see QC793.3.S9
Ionospheric influences see QC793.3.C6
Isospin see QC793.3.S6

793.3.K5
Kinematics

793.3.L53
Lie algebras
Lifetime see QC793.3.D4
Magnetic dipole moment see QC793.3.S6

793.3.M3
Magnetic fields

793.3.M36
Matrix theories
Molecules, Nuclear see QC793.3.N82
Moment see QC793.3.S6
Nuclear cluster theory see QC793.3.S8
Nuclear emulsions see QC793.47.P4
Nuclear forces see QC793.3.B5

793.3.N8
Nuclear matter
Nuclear models see QC793.3.S8

793.3.N82
Nuclear molecules
Nuclear orientation see QC793.3.S6

793.3.N83
Nuclear shapes
Particle accelerators see QC787.P3
Particle beams see QC793.3.B4
Phase shift see QC794.6.S3
Photography. Nuclear emulsions see QC793.47.P4
Polarization see QC794.6.S3
Problem of many bodies see QC174.17.P7

793.3.Q35
Quantum chromodynamics

793.3.Q37
Quantum flavor dynamics
Quantum theory see QC174.45+

793.3.R4
Regge trajectories
Cf. QC174.17.G7 Group theory applied to quantum theory
Relaxation see QC762.6.R44
Renormalization theory see QC174.17.R46
Resonance. Resonance integral see QC794.6.R4
Scattering see QC794.6.S3
Shapes, Nuclear see QC793.3.N83

793.3.S57
Space and time
Cf. QC173.59.S65 Relativity physics
Spectroscopy see QC454.N8

793.3.S6
Spin. Moments. Magnetic dipole moment. Nuclear orientation

793.3.S77
Statistical mechanics

793.3.S8
Structure
Including nuclear models and nuclear cluster theory

793.3.S9
Symmetry. Invariance
Cf. QC174.17.S9 Quantum theory

793.3.T67
Tracks
Transitions see QC454.N8
Nuclear and particle physics. Atomic energy. Radioactivity
Elementary particle physics
Special topics, A-Z -- Continued
793.3.T7
Transport theory
793.3.V5
Violations
793.3.W3
Wave mechanics
793.3.W4
Weight diagrams
Study and teaching. Research
793.4
General works
793.412
Experiments
793.42
Problems, exercises, examinations
Technique
793.46
General works
793.47.A-Z
Special, A-Z
793.47.E4
Electronic data processing
793.47.P4
Photography. Nuclear emulsions
793.47.S83
Statistical methods
Instruments and apparatus see QC785.5+
793.49
Miscellany and curiosa
793.5.A-Z
Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z
793.5.A22-.A229
Alpha particles. Alpha rays (Table Q2)
793.5.A25-.A259
Anyons (Table Q2)
793.5.B32-.B329
Baryons (Table Q2)
793.5.B42-.B429
Beta particles. Beta rays (Table Q2)
793.5.B62-.B629
Bosons (Table Q2)
Including intermediate, W, and Z bosons
793.5.C64-.C649
Cold neutrons (Table Q2)
Including ultracold neutrons
793.5.D42-.D429
Delayed neutrons (Table Q2)
793.5.D442-.D4429
Delayed protons (Table Q2)
793.5.D482-.D4829
Deuterons (Table Q2)
793.5.E62-.E629
Electrons (Table Q2)
Including synchrotron radiation
Cf. QC449.3 Electron holography
793.5.F32-.F329
Fast neutrons (Table Q2)
793.5.F42-.F429
Fermions (Table Q2)
793.5.G32-.G329
Gamma rays (Table Q2)
793.5.G552-.G5529
Gluons (Table Q2)
793.5.H32-.H329
Hadrons (Table Q2)
Cf. QC794.8.S8 Strong interactions
793.5.H34-.H349
Heavy leptons (Table Q2)
793.5.H42-.H429
Hyperons (Table Q2)
Including sigma particles and Y-particles
Intermediate bosons see QC793.5.B62+
Kaons see QC793.5.M42+
793.5.L42-.L429
Leptons (Table Q2)
Cf. QC793.5.H34+ Heavy leptons
Cf. QC794.8.W4 Weak interactions
793.5.M32-.M329
Magnons (Table Q2)
793.5.M42-.M429
Mesons (Table Q2)
Including kaons, muons, and pions
Muons see QC793.5.M42+
793.5.N42-.N429
Neutrinos (Table Q2)
793.5.N462-.N4629
Neutrons (Table Q2)
793.5.N82-.N829
Nucleons (Table Q2)
793.5.N862-.N8629
Nuclides (Table Q2)
Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

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

Phonons see QC176.8.P5

Cf. QC176.8.P6 Polaritons

Cf. QC794.8.E4 Electromagnetic interactions

Pions see QC793.5.M42+

Polarons see QC176.8.P62

Photons (Table Q2)

Cf. QC176.8.P6 Polaritons

Cf. QC794.8.E4 Electromagnetic interactions

Pions see QC793.5.M42+

Polarons see QC176.8.P62

Positrons (Table Q2)

Pomerons (Table Q2)

Prompt neutrons (Table Q2)

Protons (Table Q2)

Quarks (Table Q2)

Quasi-particles (Table Q2)

Sigma particles see QC793.5.H42+

Slow neutrons (Table Q2)

Strange particles (Table Q2)

Tachyons (Table Q2)

Thermal electrons (Table Q2)

Thermal neutrons (Table Q2)

W bosons see QC793.5.B62+

Y-particles see QC793.5.H42+

Z bosons see QC793.5.B62+

Nuclear interactions

Cf. QC454.N8 Nuclear spectroscopy

Periodicals, societies, congresses, serial publications

Collected works (nonserial)

General works, treatises, and textbooks

Addresses, essays, lectures

Special topics, A-Z

Angular distribution. Angular correlations

Coherence

Collisions

Cross section of interactions

Decay see QC794.6.R3

Excitation

Cf. QC795.8.E5 Energy levels

Feynman diagrams

Form factor

Grand unified theories

Internal conversion

Isotone shift. Isotope shift

Kinematics

Moments

Multiplicity

Polarization see QC794.6.S3

Radiative capture

Radioactivity. Decay

Resonance. Resonance integral

Scattering

Including elastic scattering, inelastic scattering, polarization, etc.

Standard model

Stopping power
Nuclear and particle physics. Atomic energy. Radioactivity
Nuclear interactions
Special topics, A-Z -- Continued

794.6.S85
String models
  Including superstring theories
  Transitions see QC454.N8

794.8.A-Z
Special types of interactions, A-Z

794.8.D57
  Direct
794.8.E35
  Effective
794.8.E4
  Electromagnetic
    Cf. QC793.5.P42+ Photons

794.8.E44
  Electroweak
794.8.E93
  Exclusive
794.8.G7
  Gravitational
794.8.H4
  Heavy ion induced
    Including heavy ion collisions

794.8.H5
  High energy
    Cf. QC793.3.H5 High energy physics

794.8.H52
  Inclusive
794.8.L69
  Low-energy nuclear reactions
794.8.P4
  Photonuclear
    Cf. QC715+ Photoelectricity

794.8.S7
  Spallation
794.8.S8
  Strong
    Cf. QC793.5.H32+ Hadrons

794.8.W4
  Weak
    Cf. QC793.5.L42+ Leptons

Radioactivity and radioactive substances
  Including ionizing radiation
    Cf. QC474+ Radiation physics
    Cf. QC913+ Meteorological aspects
    Cf. QD601+ Radiochemistry
    Cf. QE501.4.N9 Nuclear geophysics
    Cf. QH543.5+ Radiobiology

794.95
  Periodicals, societies, congresses, serial publications
794.96
  Collected works (nonserial)
794.97
  Dictionaries and encyclopedias
794.98
  History
795
  General works, treatises, and textbooks
795.26
  Popular works
795.27
  Juvenile works
795.28
  Addresses, essays, lectures
795.3
  Special aspects of the subject as a whole
795.32.A-Z
  Special topics, A-Z
795.32.R3
  Radiation dosimetry in physics
795.32.S3
  Safety measures for physicists
    Cf. RA1231.R2 Toxicology
    Cf. TK9152+ Nuclear engineering

Study and teaching. Research

795.34
  General works
795.36
  Experiments
795.38
  Laboratory manuals
  Laboratories see QD604.8+
  Technique
    Cf. TK9151.4+ Radiation environment procedures
Nuclear and particle physics. Atomic energy. Radioactivity
  Radioactivity and radioactive substances
    Technique -- Continued
  795.4  General works
  795.42 Measurement of radioactivity and ionizing radiation
  795.5 Instruments and apparatus (General)
    For individual instruments see QC785.5+
  795.52 Handbooks, tables, formulas, etc.
  795.55.A-Z Special types of radioactivity, A-Z
  795.55.I5 Induced radioactivity
  Radioactive substances and radioisotopes
    Cf. TK9400+ Nuclear engineering
  795.6 Periodicals, societies, congresses, serial publications
  795.64 Dictionaries and encyclopedias
  795.7 General works, treatises, and textbooks
  795.74 Juvenile works
  Study and teaching. Research
  795.76 General works
  795.77 Experiments
  795.78 Laboratory manuals
  795.8.A-Z Special topics, A-Z
    Prefer classification by specific substance in QC796
  795.8.D4 Decay
  795.8.E5 Energy levels
  795.8.F5 Fission products
  795.8.H3 Half-life
  795.8.I5 Internal conversion
    Isobars, Nuclear see QC795.8.N8
  795.8.N8 Nuclear isomers. Nuclear isobars
  795.8.R3 Radionuclides
  795.8.S6 Spectra
    For spectra of specific substances see QC462+
    Standards see TK9400+
  795.8.T45 Thermal properties
    Transportation see HE199.5.R3+
  796.A-Z Special radioactive substances and radioisotopes, A-Z (Table Q1)
  796.2 Superheavy elements
    Cf. QD172.S93 Inorganic chemistry
  Applications
    For applications in special fields, see the field, e.g. QH324.3, Tracers in biological research;
    RM858, Radioisotopes in therapeutics; TK9400-9401, Radioactive substances in industry
  798.A1 General works, treatises, and textbooks
  798.A2-Z Individual, A-Z
  798.D3 Dating
  798.T7 Tracers

Geophysics. Cosmic physics
  Cf. GB5000+ Natural disasters
  801 Periodicals, societies, congresses, serial publications
  801.3 International Geophysical Committee. International Geophysical Year
  801.4 International Years of the Quiet Sun
  801.5 Collected works (nonserial)
  801.9 Dictionaries and encyclopedias
  Observations
  802.A1 General works, treatises, and textbooks
  802.A2-Z By name of issuing observatory, A-Z
    Prefer QC803

124
Geophysics. Cosmic physics
Observations -- Continued
803.A-Z By region or country, A-Z
804 History
Biography
805.A2 Collective
805.A3-Z Individual, A-Z
806 General works, treatises, and textbooks
806.4 Juvenile works
806.6 Addresses, essays, lectures
807 Special aspects of the subject as a whole
Study and teaching. Research
807.5 General works
807.52 Problems, exercises, examinations
807.6.A-Z By region or country, A-Z
Observatories
808.A2 General works
808.A5-Z By region or country, A-Z
Under each country:
\[\cdot x\] General works
\[\cdot x2A-\cdot x2Z\] Individual observatories. By name, A-Z
808.5 Technique. Instructions for observers
808.6 Data processing
808.7 Instruments and apparatus
808.8 Handbooks, tables, formulas, etc.
809.A-Z Special topics, A-Z
809.A25 Acoustic phenomena
809.C6 Cosmic noise
Earth radiation see QC809.T4
809.E15 Earth resistance
809.E2 Earth tides
809.E5 Elastic waves
809.E55 Electrodynamics
Cf. QB460+ Astrophysics
809.E6 Energy budget. Heat budget
809.F5 Fluid dynamics
Heat budget see QC809.E6
809.M25 Magnetic fields. Geomagnetic micropulsations
809.M3 Magnetohydrodynamics
809.M35 Magnetosphere. Magnetopause
809.M37 Mathematics
Nuclear astrophysics see QB463+
Nuclear geophysics see QE501.4.N9
809.P3 Paleogeophysics
809.P5 Plasmasphere. Space plasmas
809.R3 Radiation
Solar wind see QB529+
Space plasmas see QC809.P5
809.S67 Spectral theory
809.T38 Terrestrial heat flow
809.T4 Terrestrial radiation
809.V3 Van Allen radiation belts
Geomagnetism
Cf. QC750+ Magnetism
Cf. QE501.4.P35 Paleomagnetism
811 Periodicals, societies, congresses, serial publications
Geomagnetism -- Continued

811.15 Collected works (nonserial)

813 History

814 Early works through 1800
   General works, treatises, and textbooks

815 1801-1969

815.2 1970-

815.5 Juvenile works

815.7 Addresses, essays, lectures

816 Special aspects of the subject as a whole
   Observatories

818.A2 General works

818.A5-Z By region or country, A-Z
   Under each country:
      .x General works
      .x2A-.x2Z Individual observatories. By name, A-Z

819 Instruments and apparatus
   Including magnetometer

820 Technique. Instruction for observers

820.6 Data processing

821 Handbooks, tables, formulas, etc.

822 Maps and mapping
   Including construction, use, and interpretation of maps
   Magnetic surveys
   Geographic areas below are not subarranged by country

825 General works

825.1 North America

825.2 Mexico, Central America, and West Indies

825.3 South America

825.4 Europe

825.5 Asia

825.6 Africa

825.7 Australia

825.75 New Zealand

825.8 Arctic regions

825.9 Antarctica

826.A-Z Oceanic areas, A-Z

830.A-Z Geomagnetic field (Analysis and theory)
   General works

828 Secular variation

830.A-Z Magnetic observations
   General works. By name of issuing observatory, A-Z

831 Diurnal variations

833 Other periodic variations

835 Magnetic disturbances
   Including magnetic storms
   Geomagnetism and related aspects
   Sunspot periods

836 Eclipses

837 Meteorological phenomena

841 Geological structure

843 Earthquakes

845 Earth currents
Geomagnetism -- Continued

849
Deviation of the magnetic compass and other magnetic instruments. Magnetism of ships and aircraft
Cf. TL589.2.C6 Aeronautical instruments
Cf. VK577 Nautical instruments

Meteorology. Climatology
Including the earth's atmosphere and atmospheric physics
For works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability see QC980+
Cf. GB2801+ Hydrometeorology
Cf. N72.M48 Art and meteorology
Cf. QB603.A85 Planetary meteorology
Cf. S600+ Agricultural meteorology
Cf. SD390.5+ Forest meteorology
Cf. SH343.3 Fishery meteorology
Cf. TA197+ Engineering meteorology
Cf. TL556+ Aeronautical meteorology
Cf. UG467 Military meteorology

851
Periodicals, societies, congresses, serial publications
852
Collected works (nonserial)
854
Dictionaries and encyclopedias
854.15
Communication of meteorological information
For computer network resources see QC866.5.C67
For exchange of meteorological information see QC866.5.E93
854.2
Nomenclature, terminology, notation, abbreviations
History
855
General works
857.A-Z
By region or country, A-Z
Biography
858.A2
Collective
858.A3-Z
Individual, A-Z
859
Early works through 1800
General works, treatises, and advanced textbooks
861
1801-1969
861.2
1970-2000
861.3
2001-
863
Elementary textbooks
863.4
Popular works
Including works for hobbyists
863.5
Juvenile works
864
Handbooks, tables, formulas, etc.
Cf. QC871.4 Observers' manuals
Cf. QC873 Computation tables
865
Addresses, essays, lectures
866
Special aspects of the subject as a whole
866.5.A-Z
Special topics, A-Z
866.5.C65
Communication systems
866.5.C67
Computer network resources
Including the Internet
866.5.E93
Exchange of meteorological information
866.5.G46
Geographic information systems
866.5.I5
International cooperation
Cf. QC875.2.A+ International projects, programs, etc.
866.5.P4
Photography (General)
Study and teaching. Research
Meteorology. Climatology

Study and teaching. Research -- Continued

869
General works
869.15
Outlines, syllabi
869.2
Programmed instruction
869.3
Problems, exercises, examinations
869.4.A-Z
By region or country, A-Z
869.5
Meteorology as a profession. Vocational guidance
870
Miscellany and curiosa

Technique. Instructions for observers

871
Methods of observation
871.2
Observation forms, blanks, etc.
871.4
Observers' manuals
872
Telegraphic cipher codes for meteorological data
873
Computation tables (General)

Synoptic meteorology. Computation and analysis

874
General works
874.3
Data processing
874.5
Statistical methods
874.8
Laboratory manuals

Meteorological stations and observatories. Weather services

Including marine meteorological services

875.A2
General works
875.A5-Z
By region or country, A-Z

Under each country:

.x
General works
.x2A-x2Z
Individual observatories. By name, A-Z

875.2.A-Z
Individual international projects, programs, etc. By name, A-Z

Meteorological instruments

For instruments of special fields, see the field, e.g., for Rain gauges see QC926

875.5
Periodicals, societies, congresses, serial publications
875.7
History
876
General works, treatises, and textbooks
876.5
Juvenile works
876.6
Addresses, essays, lectures

Museums. Exhibitions

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

Subarrange each country by Table Q5

877
Weather signals, storm warnings, etc.
877.5
Weather broadcasting

Including radio and television weathercasting

878
Construction of weather maps, charts, etc.

Aeronomy. Upper atmosphere

878.5
Periodicals, societies, congresses, serial publications
878.6
Collected works (nonserial)
879
General works, treatises, and textbooks
879.15
Juvenile works
879.2
Addresses, essays, lectures

Study and teaching. Research

879.23
General works
879.232.A-Z
By region or country, A-Z
879.25
Instruments and apparatus

Aeronautics in meteorology

Including sounding balloons, kites, etc.

Cf. TL556+ Meteorology in aeronautics
Meteorology. Climatology
Aeronomy. Upper atmosphere

879.3 Periodicals, societies, congresses, serial publications
879.35 General works, treatises, and textbooks
879.36 Addresses, essays, lectures

Astronautics in meteorology
Including weather satellites, rockets, etc.

879.4 Periodicals, societies, congresses, serial publications
879.5 General works, treatises, and textbooks
879.53 Juvenile works
879.54 Addresses, essays, lectures
879.55.A-Z Special topics, A-Z
879.55.P4 Photography
Including automatic picture receiving and transmission, etc.

879.56 General works
879.562.A2-Z By region or country, A-Z
 Under each country:
.x General works
.x2A-.x2Z Individual stations, networks, and programs. By name, A-Z

879.57 Handbooks, tables, formulas, etc.
Observations. Data summaries
879.59.A1 General works, treatises, and textbooks
879.59.A3-Z By region or country, A-Z

Atmospheric chemistry

879.6 General works
Atmospheric ozone
Including ozone layer depletion
879.7 General works, treatises, and textbooks
879.712 Juvenile works
Observations. Data summaries
879.72 General
879.73.A-Z By region or country, A-Z
879.8 Atmospheric carbon dioxide
879.85 Atmospheric methane
879.9.A-Z Other chemical substances, A-Z
879.9.D55 Dimethyl sulfide
879.9.M47 Mercury
879.9.N57 Nitrogen compounds
879.9.O73 Organic compounds
879.9.P47 Peroxides
Radon see QC913.2.R3

Dynamic meteorology
Including mechanics and thermodynamics of the atmosphere (combined)
Cf. QC930.5+ Wind

880 General works
880.2 Addresses, essays, lectures
880.4.A-Z Special topics, A-Z
880.4.A3 Adiabatic processes
880.4.A5 Air masses
Cf. QC981.8.A5 Climatology
880.4.A8 Atmospheric circulation
880.4.B35 Baroclinicity
880.4.B55 Blocking
880.4.B65 Boundary layer
Meteorology. Climatology

Dynamic meteorology

Special topics, A-Z -- Continued

Clear air turbulence see QC880.4.T8

880.4.C64
Convection

880.4.C65
Coriolis force

880.4.C79
Cryosphere

880.4.D44
Diffusion

880.4.D5
Divergence. Convergence
Eddy flux see QC880.4.T8

880.4.E7
Equations of motion

880.4.F7
Fronts. Frontogenesis

880.4.H54
High pressure systems

880.4.L68
Low pressure systems

880.4.M52
Microbursts

880.4.P6
Power spectra

880.4.R6
Rossby waves

880.4.S56
Singularities

880.4.S65
Squalls. Squall lines

880.4.T5
Thermodynamics

880.4.T7
Transport phenomena

880.4.T8
Turbulence

Including clear air turbulence and eddy flux

880.4.V6
Vorticity

880.4.W3
Waves

Atmospheric shells (General)

Including composition of the atmosphere

881

881.2.A-Z
Specific shells, A-Z

881.2.C4
Chemosphere

881.2.D2
D region

881.2.E2
E region

881.2.E9
Exosphere

881.2.F2
F region

881.2.H43
Heliosphere

881.2.H48
Heterosphere

881.2.H6
Homosphere

881.2.I6
Ionosphere

Magnetosphere. Magnetopause see QC809.M35

881.2.M3
Mesosphere. Mesopause

881.2.M53
Middle atmosphere

881.2.N4
Neutrosphere

881.2.O9
Ozonosphere. Ozone layer

881.2.S8
Stratosphere. Stratopause

881.2.T4
Thermosphere

881.2.T7
Triptosphere. Triptopause

881.2.T75
Troposphere. Tropopause

Atmospheric pollutants

Cf. QC929.D9 Dust (Aqueous vapor)

Cf. TD881+ Air pollution

882

General works

Aerosols

882.4
Periodicals, societies, congresses, serial collections

882.42
General works, treatises, and textbooks

882.46
Technique
Meteorology. Climatology

Atmospheric pollutants -- Continued

882.5
  Dust
    Cf. TD884.5 Air pollution

882.6
  Smoke plumes
    Cf. TD884 Air pollution

Cosmic relations. Influence on sun and moon, etc.

883
  General works

883.2.A-Z
  Special topics, A-Z

883.2.A8
  Atmospheric tides

883.2.C5
  Climatic periodicity

883.2.S6
  Solar activity. Solar climate

Mesometeorology

883.4
  Periodicals, societies, congresses, serial publications

883.42
  Collected works (nonserial)

883.5
  General works, treatises, and textbooks

883.52
  Addresses, essays, lectures

Observations. Data summaries

883.54
  General works, treatises, and textbooks

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

Micrometeorology

883.7
  Periodicals, societies, congresses, serial publications

883.72
  Collected works (nonserial)

883.8
  General works, treatises, and textbooks

883.82
  Addresses, essays, lectures

Observations. Data summaries

883.84
  General works, treatises, and textbooks

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

Paleoclimatology

Cf. QE697+ Geology

884
  General works

884.2.A-Z
  Special topics, A-Z

884.2.C5
  Climatic variations

884.2.D4
  Dendroclimatology
    Cf. QK477.2.A6 Annual rings

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

Atmospheric pressure

Cf. QC934 Relation to wind

885
  General works, treatises, and textbooks

885.2
  Charts, diagrams, maps, etc.

Observations. Data summaries

885.4
  General works

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

Mercury barometers and barographs

886
  General works

887
  Tables for reductions

889
  Distribution, isobars, etc.

891
  Variations and oscillations

895
  Barometric hypsometry

896
  Aneroid barometers and barographs

Temperature and radiation

Atmospheric temperature

Cf. QC934.2 Wind chill
    Cf. TL557.A8 Aeronautical meteorology

Observations
  Including distribution, isotherms
Meteorology. Climatology
Temperature and radiation
Atmospheric temperature
Observations -- Continued
901.A1 General works, treatises, and textbooks
901.A3-Z By region or country, A-Z
902 Instruments and apparatus
Variations. Climatic changes
Including global temperature changes, etc.
902.8 Periodicals, societies, congresses, serial publications
Communication of information
902.9 General works
902.92 Information resources
902.93 Computer network resources
Including the Internet
Cf. QC981.8.G56 Global warming
903 General works, treatises, and textbooks
903.15 Juvenile works
903.2.A-Z By region or country, A-Z
905 Winter temperatures
906 Summer temperatures
(907) Temperature of the earth
see QE509
(909) Temperature of the sea see GC160+
Solar radiation. Sunshine
910.2 Periodicals, societies, congresses, serial publications
910.5 Collected works (nonserial)
911 General works, treatises, and textbooks
911.2 Juvenile works
911.3 Addresses, essays, lectures
911.6 Handbooks, tables, formulas, etc.
Observations. Data summaries
911.8 General works, treatises, and textbooks
911.82.A-Z By region or country, A-Z
912 Instruments and apparatus
Including actinometers, pyrheliometers, sunshine recorders, etc.
912.2.A-Z Special topics, A-Z
912.2.S64 Solar constant
912.3 Atmospheric radiation
Including greenhouse effect
912.5 Albedo
912.55 Global radiation
Atmospheric radioactivity
913 General works
913.2.A-Z Special topics, A-Z
913.2.A8 Atomic energy
Including radioactive fallout
Cf. TD887.R3 Radioactive pollution
913.2.R3 Radon
Aqueous vapor
Humidity. Hygrometry
915 General works
915.5 Evaporation and evapotranspiration
915.5 General works
Meteorology. Climatology
Aqueous vapor
Humidity. Hygrometry
Evaporation and evapotranspiration -- Continued
Observations. Data summaries
915.6
General works
915.7.A-Z
By region or country, A-Z
916
Instruments and apparatus
Including hydrometers, psychrometers, etc.
917
Handbooks, tables, formulas, etc.
920
Forms of water (General)
Clouds
Cf. TL557.C6 Aeronautical meteorology
920.7
Periodicals, societies, congresses, serial publications
920.8
Collected works (nonserial)
921
General works, treatises, and textbooks
921.3
Pictorial works and atlases
921.35
Juvenile works
921.37
Addresses, essays, lectures
Observations. Data summaries
921.375
General works, treatises, and textbooks
921.377.A-Z
By region or country, A-Z
Cloud forms and classification. Formation
921.4
General works
921.43.A-Z
Special forms, A-Z
921.43.C57
Cirrus
921.43.C8
Cumulus
921.43.N3
Nacreous (Mother-of-pearl)
Noctilucent see QC976.N6
921.43.S8
Stratus
Cloud physics
921.48
Periodicals, societies, congresses, serial publications
921.5
General works, treatises, and textbooks
921.55
Addresses, essays, lectures
921.6.A-Z
Special topics, A-Z
921.6.C6
Condensation nuclei
Including cloud droplets, ice crystals, etc.
921.6.C65
Convection
921.6.D95
Dynamics
921.6.E4
Electrification
921.6.T4
Thermodynamics of clouds
Observations of altitude, motion, etc.
922
General works, treatises, and textbooks
923
Instruments and apparatus
Including ceilometer
924.A-Z
By region or country, A-Z
Rain and rainfall
Cf. BV283.F3 Prayers for rain
Cf. QE581 Erosion
Cf. S622+ Soil conservation
Cf. SD390.7.R34 Forest meteorology
Cf. TD418 Rainwater (Water supply)
924.5
Periodicals, societies, congresses, serial publications
924.6
Collected works (nonserial)
924.7
Juvenile works
925
General works, treatises, and textbooks
Meteorology. Climatology
Aqueous vapor
Rain and rainfall -- Continued
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
925.9
Arctic regions
925.95
Antarctica
926
Instruments and apparatus
Including rain gauges
926.2
Data processing
926.24
Raindrops
Including raindrop size
 Meteorology. Climatology
Aqueous vapor -- Continued

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+
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+
Meteorology. Climatology

Aqueous vapor

Other topics, A-Z -- Continued

929.R17
Rain shadows
929.R2
Rain without clouds
929.S43
Sea salt aerosols
929.S5
Showers of miscellaneous matter
929.S6
Smoke influences
(929.S7)
Snow. Ice. Blizzards

see QC926.3+

Droughts
929.2
Periodicals, societies, congresses, serial publications
929.24
General works, treatises, and advanced textbooks
929.25
Juvenile works
By region or country
United States
929.26
General works
929.27.A-Z
By region or state, A-Z
Subarrange each state by Table Q4
929.28.A-Z
Other regions or countries, A-Z
Subarrange each country by Table Q4

Wind
Cf. QC880+ Dynamic meteorology
Cf. TA654.5 Wind loads on structures
Cf. TL557.A5 Aeronautical meteorology
Cf. VK543+ Sailing

930.5
Periodicals, societies, congresses, serial publications
930.6
Collected works (nonserial)
930.7
Dictionaries and encyclopedias
931
General works, treatises, and textbooks
931.4
Juvenile works
931.6
Addresses, essays, lectures
931.8
Charts, diagrams, maps, etc.
932
Instruments and apparatus
Including anemometers
932.5
Handbooks, tables, formulas, etc.
933
Direction and velocity
934
Wind relation to atmospheric pressure
934.2
Wind in relation to atmospheric temperature. Wind chill
935
Upper currents. Jet stream
939.A-Z
Constant, local, and periodic winds, A-Z
939.B67
Bora
939.C76
Crosswinds
939.F6
Föhn, Chinook, etc.
939.G73
Gregale
939.K37
Katabatic winds
939.L37
Land and sea breezes
939.M7
Monsoons
939.M8
Mountain and valley winds
Including Santa Ana
939.N8
Northers
Sea and land breezes see QC939.L37
939.T7
Trade winds
Observations
940.A1
General works, treatises, and textbooks
Meteorology. Climatology

Wind
Observations -- Continued
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 curiosa

Theoretical aspects
Including dynamic meteorological aspects
942
General works
943
Application to navigation
943.5.A-Z
By region or country, A-Z
Hurricanes and other cyclonic storms
944
General works, treatises, and textbooks
944.2
Juvenile works
By geographical location
945
Atlantic Ocean and West Indies
Including tropical cyclones, northeaster storms
947
India, Pakistan, and the Indian Ocean
948
China Seas and Pacific Ocean. Far East
Including typhoons
951
Instruments and apparatus
Including barocyclonometer
Tornadoes
955
General works
955.2
Juvenile works
955.5.A-Z
By region or country, A-Z
957
Waterspouts
958
General works
959.A-Z
By region or country, A-Z

Electrical phenomena in the atmosphere
Cf. QC801+ Geophysics. Cosmic physics
Cf. QC972.6+ Radio meteorology
960.5
Periodicals, societies, congresses, serial publications
961
General works, treatises, and textbooks
961.2
Addresses, essays, lectures
961.5
Technique. Instructions for observers
962
Instruments and apparatus
963
Observations of potential variation
Lightning (General)
Cf. GR640 Folklore
Cf. TH9057+ Protection of buildings from lightning
966
General works
966.5
Juvenile works
966.7.A-Z
Special topics, A-Z
Arresters see TK3248
966.7.A84
Atmospheric ionization
Meteorology. Climatology
  Electrical phenomena in the atmosphere
    Lightning (General)
      Special topics, A-Z -- Continued
  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
          Sferics see QC973.4.A85
        973.4.T76
          Tropospheric radio waves
            Including absorption, propagation, etc.
        973.4.V2
          VLF emissions, propagation, etc.
        973.4.W5
          Whistlers
          Radar meteorology
        973.45
          Periodicals, societies, congresses, serial publications
        973.5
          General works, treatises, and textbooks
Meteorology. Climatology
Radio meteorology. Microwave meteorology
Radar meteorology -- Continued
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
Meteorological optics
974.5
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)
Counterglow
see QB761
Gegenschein see QB761
976.H15
Halos
976.L36
Laser beam propagation
976.M6
Mirages
976.N5
Night sky
976.N6
Noctilucent clouds
976.P7
Polarization
976.R15
Rain band spectrum
976.R2
Rainbow
976.R4
Atmospheric refraction
976.S3
Scattering
976.T6
Transmission of the atmosphere
976.T7
Transparency of the atmosphere
976.T8
Turbidity
976.T9
Twilight phenomena
976.U4
Ultraviolet rays
976.V5
Visibility
Cf. TL557.V5 Aeronautical meteorology
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
Cryoclimatology
981.7.D94
Dynamic climatology
981.7.M3
Macroclimatology
981.7.M4
Mesoclimatology
981.7.M5
Microclimatology

Paleoclimatology see QC884+
981.7.S8
Synoptic climatology
981.7.T64
Topoclimatology
981.7.U7
Urban climatology
981.8.A-Z
Special topics, A-Z
981.8.A5
Air masses in weather situations

Including cold and heat waves, etc.

(981.8.C5)
Climatic changes

see QC902.8+
981.8.C53
Climatic extremes
Cold waves see QC981.8.A5
981.8.C65
Continentality
Droughts see QC929.2+
Forest influences see SD425
Glaciers and climate see QC981.8.I23
981.8.G56
Global warming

Heat waves see QC981.8.A5
981.8.I23
Ice sheets and climate. Glaciers and climate
981.8.S9
Sultriness
981.8.V65
Volcano effect on weather
981.8.Z6
Zones of climate
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
Canada
985
General works
985.5.A-Z
By region or province, A-Z
Subarrange each province by Table Q4
Mexico and Central America
986.A1
General works
986.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
West Indies
987.A1
General works
987.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
South America
988.A1
General works
988.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Europe
989.A1
General works
989.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Asia
990.A1
General works
990.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Africa
991.A1
General works
991.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Australia
992.A1
General works
992.A3-Z
Local, A-Z
New Zealand
992.5.A1
General works
992.5.A3-Z
Local, A-Z
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

994.75
Polar climatology and meteorology
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)
Including graphical technique

995.48
General works

995.485
Observers' manuals

995.5
Types of weather forecasting
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
29  1861-1969
30  1970-2000
31  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

47  United States
   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

49.5  Special teaching methods and aids
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

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
    Special topics, A-Z
  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
(75.4.M36)  see QD75.4.C45
(75.4.M4)  Measurement
          see QD75.4.C45
75.4.Q34  Preparation of samples see QD75.4.S24
75.4.S24  Quality control
          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.C    General works
79.C4   Gas chromatography
79.C45  Ion exchange chromatography
79.C453  Ligand exchange chromatography
79.C457  Liquid chromatography
79.C46  Paper chromatography
79.C52  Preparative layer chromatography
79.C75  Radiochromatography
79.C8   Thin layer chromatography
79.F4   Electron diffraction
79.F44  Electrophoresis
79.I5   Fluorimetry
79.M5   Instrumental analysis
79.M8   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

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

General works

95

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

Electrochemical analysis

115  
General works
116.A-Z  
Special methods, A-Z
116.C65  
Conductometric analysis
116.I57  
Impedance spectroscopy
116.P64  
Polarography
116.P68  
Potentiometry
116.V64  
Voltammetry
117.A-Z  
Other special methods, A-Z
117.C5-.C52  
Chromatography
117.C5  
General works
117.C515  
Gas chromatography
117.C517  
Liquid chromatography
117.C52  
Thin layer chromatography
117.E4  
Electron diffraction
117.E42  
Electron microprobe. Electron probe microanalysis
117.E45  
Electrophoresis
117.F5  
Fluorimetry
117.M5  
Microchemical analysis. Microchemistry
117.P5  
Photometry
117.R3  
Radiometry. Radiation measurement
117.S64  
Spectrophotometry

Spectrum analysis see QD95+
117.T4  
Thermal analysis
121  
Gas analysis

Including air analysis

Cf. TP754 Analysis, tests, etc. in the gas industry

Technical analysis

130  
Periodicals, societies, congresses, serial publications
131  
General works, treatises, and textbooks
132  
Metals

General works
Analytical chemistry
  Technical analysis
    Metals -- Continued
      Assaying see TN550+
    Iron and steel alloys
      Alloys (General). Nonferrous alloys
      General works
      Special metal alloys, A-Z
        For the analysis of metallic elements see QD181.A+
    133
      Iron and steel alloys
      Alloys (General) see TN550+
    135
      General works
      Special metal alloys, A-Z
    137.A-Z
      Alloys (General). Nonferrous alloys
        Aluminum alloys
        Arsenic alloys
        Babbitt metal
        Chromium-iron-nickel alloys
        Copper alloys
        Ferrites (Magnetic materials)
        Ferroboron
        Ferrochromium
        Ferroniobium
        Ferrotungsten
        Gold alloys
        Iron alloys (General) see QD133
        Magnesium alloys
        Nickel alloys
        Silver alloys
        Steel alloys see QD133
      137.M3
        Stainless steel
      137.S5
        Steel alloys see QD133
      137.U73
        Uranium alloys
      137.Z5
        Zinc alloys
    139.A-Z
      Other special, A-Z
        Air see QD121
        Air pollution see TD890
        Carbonated beverages see TP628+
        Cement see TP882.3
        Ceramics see TP810
      139.C53
        Cigarette smoke
        Clay see TP811
        Distilled beverages see TP609
      139.E4
        Electrolytes
        Fats, oils, and waxes see TP671
        Fermentation industries see TP511
        Food see TX545
        Gas see QD121
        Gas industry see TP754
      139.G5
        Glass
        Materials (General) see QD130+
        Oils, fats, and waxes see TP671
        Oils (Petroleum) see TP691
        Plastics see TP1140
      139.P6
        Polymers
      139.S44
        Semiconductors
        Sewage see TD735
      139.S5
        Silicon organic compounds
      139.T5
        Textiles
        see TS1449
      139.T7
        Trace elements
        Water see QD142
        Water supply see TD380+
Analytical chemistry
   Technical analysis
   Other special, A-Z -- Continued
      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
   149.5
      General works
149.7.A-Z
      By region or country, A-Z
150
   Early works through 1800
      General works, treatises, and advanced textbooks
      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
172.A3
   Actinide elements
172.A4
   Alkali metals
Inorganic chemistry

Metals

By group, A-Z -- Continued

172.A42  Alkaline earth metals
172.I7   Iron group
172.M4   Magnesium group
172.P8   Platinum group
172.P88  Precious metals
172.R2   Rare earth metals
172.S6   Spinel group
172.S93  Superheavy elements
          Cf. QC796.2 Nuclear physics
172.T52  Titanium group
172.T6   Transition metals
172.T65  Transplutonium elements
172.T7   Transuranium elements

181.A-Z  Special elements. By chemical symbol, A-Z (Table Q1)
          Class here works on the origin, properties, preparation, reactions, isotopes, and analytical
          chemistry of individual elements and their inorganic compounds.
          For the determination of atomic and molecular weights see QD464.A+

Salts

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

Organic chemistry

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

241  Periodicals, societies, congresses, serial collections
(243) Yearbooks
    see QD241
245  Collected works (nonserial)
246  Dictionaries and encyclopedias

History

248  General works
248.5.A-Z  By region or country, A-Z

General works, treatises, and advanced textbooks

251  Through 1970
251.2    1971-2000
251.3    2001-

Elementary textbooks

253  To 2000
253.2    2001-

Nomenclature, terminology, notation, abbreviations see QD291

254  Classification
255  Addresses, essays, lectures
255.4    Special aspects of the subject as a whole
255.5.A-Z  Special topics, A-Z
255.5.E4   Electronic data processing
255.5.M35  Mathematics
255.5.R33  Radiation effects
          Reaction mechanisms see QD502.5

Study and teaching. Research

256  General works
Organic chemistry

Study and teaching. Research -- Continued

256.5  Outlines, syllabi
257  Problems, exercises, examinations
257.5  Experiments
257.7  Handbooks, tables, formulas, etc.

Operations in organic chemistry

258  General works
261  Laboratory manuals
262  Organic synthesis

Including general works on combinatorial chemistry
For works on pharmaceutical aspects of combinatorial chemistry see RS419

Organic analysis

Class here general works on the analysis of organic compounds
For the analysis of specific organic compounds or groups of compounds, see QD301
For works on the analysis of both organic and inorganic compounds see QD71+

271.A1  Periodicals, societies, congresses, serial publications
271.A2-Z  General works, treatises, and textbooks

Reagents, indicators, test papers, etc.

271.3  General works
271.35.A-Z  Special topics, A-Z
271.35.E54  Electrophiles. Superelectrophiles
271.4  Qualitative analysis

Prefer QD272 for special methods in qualitative analysis

271.7  Quantitative analysis

Prefer QD272 for special methods in quantitative analysis

272.A-Z  Special methods of analysis (Qualitative and quantitative), A-Z

Chromatography

272.C4  General works
272.C44  Gas chromatography
272.C444  Gel permeation chromatography
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  Spectral 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
281.A2  Acylation
281.A5  Alkylation
281.A6  Amination
281.A63  Ammonolysis
Organic chemistry
Operations in organic chemistry
Other special, A-Z -- Continued

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
Fotation
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
Solvolyis
281.S67
Substitution reactions
281.S7
Sulfonation
Telomerization see QD281.P6

291
Nomenclature, terminology, notation, abbreviations

Aliphatic compounds
300
Periodicals, societies, congresses, serial publications
301
General works, treatises, and textbooks
302
Special aspects of the subject as a whole
305.A-Z
Special groups, A-Z
Including works on both aliphatic and aromatic aspects of functional groups
For works on special groups of aromatic compounds only see QD341.A+

305.A2
Acids and esters
305.A4
Alcohols
305.A6
Aldehydes and other carbonyl compounds
For ketones see QD305.K2
305.A7
Amides and hydrazides
Cf. QD315 Urea
Amino acids see QD431+
305.A8
Amino compounds
Organic chemistry
Aliphatic compounds

Special groups, A-Z -- Continued

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
305.N84  Nitrogen derivatives (General)
305.P46  Phosphorus derivatives (General)
  Radicals see QD305.C3
305.S54  Silicon compounds
305.S83  Sulfones
305.S84  Sulfur derivatives (General)
305.T45  Thio compounds
  Ylides see QD305.C3
315  Urea and related compounds
   Cf. QP801.U7 Animal biochemistry
Carbohydrates
   Including sugars, starch, etc.
   Cf. QP701+ Animal biochemistry
   Cf. TP375+ Sugar manufacture
   Cf. TP415+ Starch
320  Periodicals, societies, congresses, serial publications
321  General works, treatises, and textbooks
322.A-Z  Special topics, A-Z
322.A52  Analysis
322.S95  Synthesis
323  Cellulose
   Including hemicellulose
325  Glycosides
   Including glucosides, mannosides, and galactosides
327  Tannins
Aromatic compounds
   Cf. QD390+ Condensed benzene rings
   Cf. QD399+ Heterocyclic compounds
330  Periodicals, societies, congresses, serial publications
331  General works, treatises, and textbooks
335  Special aspects of the subject as a whole
341.A-Z  Special groups, A-Z
341.A2  Acids and esters
Organic chemistry
Aromatic compounds

Special groups, A-Z -- Continued

341.A4 Alcohols
341.A6 Aldehydes and other carbonyl compounds
    For ketones see QD341.K2
341.A7 Amides and hydrazides
341.A8 Amino acids see QD431+
341.A83 Amino compounds
341.A9 Azo, hydrazo, and diazo compounds
    Benzene see QD341.H9
341.E7 Ethers and oxides
341.H8 Halogen compounds
341.H9 Hydrocarbons, benzene, etc.
341.I6 Imino compounds
341.K2 Ketones
341.N7 Nitriles and cyanogen derivatives
341.N8 Nitro and nitroso compounds
341.N83 Nitrogen derivatives (General)
341.P5 Phenols
341.P6 Pseudophenols
341.Q4 Quinones
341.S3 Sulfur derivatives (General)
341.S6 Sulfoxides and sulfones
341.S8 Sulfonium compounds

Antibiotics

Cf. QP801.A63 Animal biochemistry
Cf. RM265+ Therapeutics

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

Polymers, Macromolecules

Class here general works on chemical and physical properties of polymers
For works on physical properties see QC173.4.P65
Cf. QD139.P6 Technical analysis
Cf. QD196 Inorganic polymers
Cf. QD281.P6 Polymerization (Organic chemistry)
Cf. QD399+ Macrocyclic compounds
Cf. TP156.P6 Polymerization (Chemical engineering)
Cf. TP1080+ Polymer technology

380 Periodicals, societies, congresses, serial publications
380.3 Dictionaries and encyclopedias
380.6 Nomenclature, terminology, notation, abbreviations
380.7 Classification
381 General works, treatises, and textbooks
381.3 Juvenile works
381.7 Addresses, essays, lectures
381.8 Special aspects of the subject as a whole
Organic chemistry
Polymers. Macromolecules -- Continued

381.9.A-Z
Special topics, A-Z
381.9.A25
Acoustic properties
381.9.C64
Conformational analysis
381.9.D47
Deterioration
381.9.E38
Electric properties
381.9.E4
Electronic data processing
   Fractionation see QD381.9.S44
381.9.M3
Mathematical models
381.9.M64
Molecular weights
381.9.O66
Optical properties
381.9.P45
Permeability
381.9.P56
Photochemistry
381.9.R3
Radiation effects
381.9.R43
Reduced gravity effects
381.9.R48
Rheology
   Ring-opening polymerization see QD281.R5
381.9.S44
Separation. Fractionation
381.9.S65
Solubility and solutions
381.9.S87
Structure
381.9.S97
Surfaces and interfaces
381.9.T54
Thermal properties
382.A-Z
Special types, A-Z
382.A47
Amphiphiles
382.B47
Biomimetic polymers
382.B5
Block copolymers
382.B73
Branched polymers
   Including star-branched polymers and hyper-branched polymers
382.C66
Conducting polymers. Conjugated polymers
382.C665
Conjugated oligomers
   Including oligothiophenes
   Conjugated polymers see QD382.C66
382.C67
Coordination polymers
382.P64
Emulsion polymers
382.F55
Fluorescent polymers
382.G7
Graft copolymers
382.H4
Heat resistant polymers
382.H48
Heterochain polymers
   Hyper-branched polymers see QD382.B73
382.I43
Imprinted polymers
382.I45
Ionomers
   Metallofoldamers see QD382.O43
382.O43
Oligomers
   Including metallofoldamers
   Photochromic polymers see QD382.P45
382.P45
Photopolymers. Photochromic polymers
382.P64
Polyelectrolytes
   Including polyanhydrides
   Polymer colloids see QD549.2.P64
   Polymer liquid crystals see QD923
382.P67
Polymer networks. Crosslinked polymers
382.R43
Reactive polymers
382.S4
Semiconductors
Organic chemistry
Polymers. Macromolecules
   Special types, A-Z -- Continued
      Star-branched polymers see QD382.B73
382.T44
   Telechelic polymers
382.T46
   Thermoresponsive polymers
382.W3
   Water-soluble polymers
383.A-Z
   Special substances, A-Z
383.A27
   Acrylic polymers
383.A55
   Amine polymers
383.A95
   Azo polymers
383.B67
   Boron organic polymers
383.E66
   Epoxy polymers
383.F48
   Fluoropolymers
383.F84
   Fullerene polymers
383.G57
   Glutamic acid polymers
      Methacrylate polymers see QD383.A27
383.S54
   Silicon polymers
383.V56
   Vinyl polymers
385
   Laboratory manuals
388
   Handbooks, tables, formulas, etc.
Condensed benzine rings
390
   General works, treatises, and textbooks
390.3
   Special aspects of the subject as a whole
391
   Naphthalene and naphthalene derivatives
393
   Anthracene and anthracene derivatives
395
   Phenanthrene and phenanthrene derivatives
Heterocyclic and macrocyclic chemistry and compounds
399
   Periodicals, societies, congresses, serial publications
400
   General works, treatises, and textbooks
400.3
   Special aspects of the subject as a whole
400.5.A-Z
   Special topics, A-Z
400.5.S95
   Synthesis
401
   Cyclic compounds containing N
403
   Cyclic compounds containing S
405
   Cyclic compounds containing O
406
   Cyclic compounds containing P
Organometallic chemistry and compounds
   Cf. QD882 Supramolecular organometallic chemistry
410
   Periodicals, societies, congresses, serial publications
411
   General works, treatises, and textbooks
411.5
   Addresses, essays, lectures
411.7.A-Z
   Special topics, A-Z
411.7.A53
   Analysis
411.7.B37
   Barbier reactions
411.7.S94
   Synthesis
411.7.T47
   Thermal properties
411.8.A-Z
   Special groups of substances, A-Z
411.8.A47
   Alkoxides
      Including aryloxides
411.8.R37
   Rare earth metals
411.8.T73
   Transition metals
412.A-Z
   Special compounds. By chemical symbol of added element, A-Z (Table Q1)
412.5
   Handbooks, tables, formulas, etc.
Organic chemistry -- Continued

Biochemistry

Class here works on chemical aspects of biological materials
Cf. QD476.2 Physical biochemistry
Cf. QH345 General biochemistry of plants and animals
Cf. QK861+ Plant biochemistry
Cf. QP501+ Animal biochemistry

415.A1
Periodicals, societies, congresses, serial publications

415.A2
Collected works (nonserial)

415.A25
Dictionaries and encyclopedias

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

415.2
Addresses, essays, lectures

415.3
Problems, exercises, examinations

415.5
Laboratory manuals

415.7
Handbooks, tables, formulas, etc.

Antibiotics see QD375+

Terpenes, camphors, etc. Essential oils
Cf. TP958+ Essences (Chemical technology)

416.A1
Periodicals, societies, congresses, serial publications

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

416.2
Addresses, essays, lectures

416.3
Problems, exercises, examinations

416.5
Laboratory manuals

416.7
Handbooks, tables, formulas, etc.

Gums and resins
Cf. TP977+ Chemical technology
Cf. TP1101+ Plastic materials for synthetic gums and resins

419.A1
Periodicals, societies, congresses, serial publications

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

419.2
Addresses, essays, lectures

419.3
Problems, exercises, examinations

419.5
Laboratory manuals

419.7
Handbooks, tables, formulas, etc.

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

421.A1
Periodicals, societies, congresses, serial publications

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

421.2
Addresses, essays, lectures

421.3
Problems, exercises, examinations

421.5
Laboratory manuals

421.7
Handbooks, tables, formulas, etc.

Steroids
Cf. QP752.S7 Animal biochemistry
Cf. RS163.S8 Materia medica

426.A1
Periodicals, societies, congresses, serial publications

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

426.2
Addresses, essays, lectures

426.3
Problems, exercises, examinations

426.5
Laboratory manuals

426.7
Handbooks, tables, formulas, etc.

Proteins, peptides, amino acids, etc.
Cf. QP551+ Animal biochemistry
Cf. TX553.P7 Special constituents of food

431.A1
Periodicals, societies, congresses, serial publications
Organic chemistry

Biochemistry

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

431.25.A-Z Special topics, A-Z

431.25.A53 Analysis

431.25.D47 Derivatives

431.25.S85 Structure

431.25.S93 Synthesis

431.3 Problems, exercises, examinations

431.5 Laboratory manuals

431.7 Handbooks, tables, formulas, etc.

Nucleic acids

433.A1 Periodicals, societies, congresses, serial publications

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

433.5.A-Z Special topics, A-Z

433.5.S77 Structure

434 Ribonucleic acids

435 Deoxyribonucleic acids

436.A-Z Other related substances, A-Z

436.N85 Nucleotides

441 Colored compounds

Including phthaleins, eosin, animal and plant pigments

Cf. QK899 Botany

Cf. QP670+ Animal biochemistry

Cf. TP909.2+ Chemical technology

Physical and theoretical chemistry

Cf. QC170+ Constitution and properties of matter

450 Periodicals, societies, congresses, serial publications

450.2 Collected works (nonserial)

451 Dictionaries and encyclopedias

451.5 Nomenclature, terminology, notation, abbreviations

History

452 General works

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

General works, treatises, and textbooks

453 Through 1970

453.2 1971-2000

453.3 2001-

455 Addresses, essays, lectures

455.2 Special aspects of the subject as a whole

455.3.A-Z Special topics, A-Z

455.3.C64 Computer simulation

455.3.E4 Electronic data processing

455.3.F73 Fractals

455.3.G7 Graphic methods

455.3.G75 Group theory

455.3.L53 Lie algebras

455.3.M3 Mathematics

455.3.T65 Topology

Study and teaching. Research

455.5 General works

455.7 Outlines, syllabi

456 Problems, exercises, examinations

457 Laboratory manuals
Physical and theoretical chemistry
Study and teaching. Research -- Continued
  457.2  Computer-assisted instruction
  458  Handbooks, tables, formulas, etc.
  461  Atomic and molecular theory and structure. Laws of chemical combination and chemical bonds. Molecular dimensions
      Cf. QD469 Valence
  461.5  Excited state chemistry
      Quantum chemistry
  462.A1  Periodicals, societies, congresses, serial publications
  462.A3-Z  General works, treatises, and textbooks
  462.5  Addresses, essays, lectures
  462.6.A-Z  Special topics, A-Z
  462.6.D38  Data processing
  462.6.D45  Density functionals
  462.6.D46  Density matrices
  462.6.E53  Energy levels
  462.6.M36  Many-body methods
  462.6.M39  Mathematics
  462.6.M66  Monte Carlo method
  462.6.P68  Potential energy surfaces
  462.6.R42  Relativistic effects
  462.6.R44  Relaxation phenomena
  462.6.S25  Scaling
  462.6.S94  Symmetry groups
  462.7  Problems, exercises, examinations
  462.9  Handbooks, tables, formulas, etc.
Atomic and molecular weights
  463  General works, treatises, and textbooks
      (Table Q1)
Chemical elements
      Nature and properties
  466  General works
  466.5  Isotopes
      For isotopes of individual elements see QD181.A+
      Cf. QD601+ Radiochemistry
      Cf. TK9400+ Radioisotopes in nuclear engineering
  467  Classification. Periodic law
  469  Valence
      Cf. QC176.8.V34 Valence fluctuations
  470  Allotropy
  471  Chemical compounds - Structure and formulas
      Including isomerism, mesomerism, tautomerism
      Cf. QD481 Stereochemistry
  473  Physical properties in relation to structure
      Including odor, color, and optical properties
      Cf. QD441 Colored organic compounds
      Cf. QD931+ Physical properties of crystals
  474  Complex compounds
      Including clathrate and coordination compounds, chelates, and hydrates
      Cf. QD410+ Organometallic compounds
  475  Physical inorganic chemistry
  476  Physical organic chemistry
  476.2  Physical biochemistry
  477  Acids and bases (General theory)
Physical and theoretical chemistry -- Continued

478  
Solids. Solid state chemistry (Inorganic and organic)  
Cf. QC176+ Solid state physics  
Cf. QD506+ Surface chemistry  
Cf. QD901+ Crystallography  
Cf. TN689+ Physical metallurgy

480  
Models of atoms, molecules, or chemical compounds

481  
Stereochemistry. Molecular rotation  
Cf. QP517.S83 Biochemistry

Conditions and laws of chemical reactions
501  
General works  
Chemical kinetics and mechanisms  
502  
General works  
502.2  
Nonlinear chemical kinetics. Oscillating chemical reactions  
502.5  
Reaction mechanisms  
Including inorganic and organic mechanisms

503  
Chemical equilibrium. Phase rule, etc.

504  
Thermodynamics

505  
Catalysis  
Cf. QD569 Electrocatalysis  
Cf. QD716.P45 Photocatalysis

505.5  
Chemical affinity and reactivity

505.8  
Chemiluminescence

Surface chemistry
506.A1  
Periodicals, societies, congresses, serial publications

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

508  
Addresses, essays, lectures

509.A-Z  
Special topics, A-Z

509.G37  
Gas-solid interfaces

509.L54  
Liquid-liquid interfaces  
Liquid-solid interfaces see QD509.S65

509.M46  
Metallic oxides

509.M65  
Monomolecular films

509.S65  
Solid-liquid interfaces

Thermochemistry  
Cf. QC301+ Change of state (Physics)  
Cf. QD79.T38 Thermal analysis (Analytical chemistry)  
Cf. QD117.T4 Thermal analysis, Quantitative  
Cf. QD157 Electric furnace operations (Inorganic chemistry)  
Cf. QD277 Electric furnace operations (Organic chemistry)

510  
Periodicals, societies, congresses, serial publications

511  
General works, treatises, and textbooks

511.3  
Addresses, essays, lectures

511.7  
Problems, exercises, examinations

511.8  
Handbooks, tables, formulas, etc.

515  
Chemistry of high and low temperatures

516  
Heat of formation, combustion, flame, explosion  
Cf. TH9446.3+ Flammability of materials  
Cf. TJ254.5+ Combustion engineering

517  
Dissociation

518  
Melting and boiling points

526  
Fractional distillation  
Cf. QD63.D6 Special operations in chemistry  
Cf. QD281.D5 Operations in organic chemistry  
Cf. TP156.D5 Chemical engineering processes  
Cf. TP589+ Distilling industries
Physical and theoretical chemistry
Thermochemistry -- Continued

531
Manipulation of gases and vapors
  Cf. TP242+ Chemical technology of gases

533
Vapor densities

535
Liquefaction of gases
  Cf. TP243 Manufacture of liquefied gases

536
Research at low temperatures
  Cf. TP480+ Low temperature engineering

538
Chemistry of high and low pressures
Theory of solution
  Cf. QC182+ Special properties of matter
  Cf. QD565 Electrolyte solutions

540
Periodicals, societies, congresses, serial publications

541
General works, treatises, and textbooks

543
Solubility, osmotic pressure, diffusion, etc.
  Solvents

544
  General works
544.3
  Aqueous
544.5
  Nonaqueous
  Cf. TP247.5 Technology of organic solvents

545
Freezing points and vapor pressures

547
Flocculation, precipitation, adsorption, etc.

548
Supersaturated solutions. Crystallization, etc.
  Cf. QD921+ Crystal structure and growth
  Colloids, sols, gels
  Cf. QP525 Animal biochemistry
  Cf. S593.3 Soil colloids

549
General works
549.2.A-Z
  Special topics, A-Z
549.2.C64
  Colloidal crystals
549.2.C66
  Complex fluids
549.2.F74
  Freezing
549.2.P64
  Polymer colloids

Electrochemistry. Electrolysis
  Cf. QC610.3+ Electric conductivity, electromotive force
  Cf. QD115+ Electrochemical analysis
  Cf. QD272.E4 Electrochemical analysis of organic compounds
  Cf. QD273 Electrochemistry of organic compounds
  Cf. QD880 Electrochemistry of supramolecular compounds
  Cf. QP517.B53 Bioelectrochemistry
  Cf. TP250+ Industrial electrochemistry

551
Periodicals, societies, congresses, serial publications

552
Collected works (nonserial)

552.5
Dictionaries and encyclopedias

553
General works, treatises, and textbooks

554
Popular works

554.5
Juvenile works

555
Addresses, essays, lectures

555.5
Special aspects of the subject as a whole
555.6.A-Z
  Special topics, A-Z
555.6.E4
  Electronic data processing
555.6.G74
  Green's functions
555.6.I58
  Interfaces
555.6.L37
  Laser electrochemistry
555.6.M36
  Mathematical models
Physical and theoretical chemistry
  Electrochemistry. Electrolysis
    Special topics, A-Z -- Continued

555.6.N65  Nonaqueous solvents
555.6.S65  Spectrum analysis
555.8      Study and teaching. Research
556        Problems, exercises, examinations
557        Laboratory manuals
  Electrochemical laboratories
558        General works
558.2.A-Z  By region or country, A-Z
            Subarrange each country by Table Q6
559        Instruments and apparatus
560        Handbooks, tables, formulas, etc.
            Ions and ionization
561        General works
562.A-Z    Special topics, A-Z
562.A54    Anion separation
562.A75    Aqua ions
            Dissociation see QD562.I65
562.E44    Electromotive force
562.E45    Electrophoresis
562.H93    Hydrogen-ion concentration
562.I63    Ion exchange. Ion exchange membranes
562.I65    Ionization. Dissociation
562.M54    Migration and velocity
            Photodissociation see QD716.P48
            Photoionization see QD716.P48
            Velocity see QD562.M54
564        Electric double layer
565        Electrolytes, electrolyte solutions
            Cf. TS672 Plating baths
568        Electrolytic cells
            Cf. TK2901+ Electric power production from chemical action
569        Electrocatalysis
571        Electrode phenomena. Polarization, etc.
572.A-Z    Special electrodes, A-Z
572.A65    Alkali metal
572.C37    Carbon
572.G53    Glass
572.H94    Hydrides
572.I66    Ion selective
572.I76    Iron
572.M34    Magnesium
572.N53    Nickel
572.O85    Oxide
572.O88    Oxygen
572.S95    Sulfur
575.A-Z    Special groups of substances, A-Z
575.C65    Complex compounds
575.G53    Glass
575.P67    Porous materials
576.A-Z    Special substances. By chemical symbol of principal element, A-Z (Table Q1)
578        Photoelectrochemistry
581        Plasma chemistry
            Cf. TP156.P5 Industrial plasma chemistry
Physical and theoretical chemistry -- Continued

591
Magnetochemistry
Cf. QD940 Magnetic properties of crystals

Radiochemistry. Nuclear chemistry
Cf. QC794.95+ Radioactivity, radioactive substances in nuclear physics
Cf. TK9350 Nuclear engineering
Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry

601.A1
Periodicals, societies, congresses, serial publications

601.A2
Collected works (nonserial)
General works, treatises, and textbooks
Through 1970
1971-2000
2001-

602
Addresses, essays, lectures

602.4
Special aspects of the subject as a whole

602.5.A-Z
Special topics, A-Z

602.5.E4
Electronic data processing

603.A-Z
Special substances. By chemical symbol of principal element, A-Z (Table Q1)
Study and teaching. Research

604
General works

604.3
Problems, exercises, examinations

604.5
Experiments

604.7
Laboratory manuals
Radiochemical laboratories. Hot laboratories
Cf. QC788+ Nuclear physics research laboratories and projects

604.8
General works

604.85.A-Z
By region or country, A-Z
Subarrange each country by Table Q6

604.9
Handbooks, tables, formulas, etc.
Radiochemical analysis

605
General works

606
Radioactivation analysis. Nuclear activation analysis

607
Tracer techniques
For applications in special fields, see the field, e.g. QH324.3 Biology

608
Isotope dilution analysis
Radiation chemistry
Cf. QC474+ Radiation physics
Cf. TA418.6 Radiation effects and tests of materials
Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry

625
Periodicals, societies, congresses, serial publications

626
Collected works (nonserial)
General works, treatises, and textbooks
Through 1970
1971-

641
Addresses, essays, lectures

642
Special aspects of the subject as a whole

643.A-Z
Special topics, A-Z

643.C5
Chemical dosimetry

643.P84
Pulse radiolysis
Study and teaching. Research

646
General works

646.3
Problems, exercises, examinations

646.5
Experiments

646.7
Laboratory manuals

649
Handbooks, tables, formulas, etc.

651.A-Z
Special substances. By name, A-Z
Physical and theoretical chemistry
Radiation chemistry
Special substances. By name, A-Z -- Continued

651.A36  Actinide elements
651.A4   Alcohol
651.A45  Ammonia
651.C37  Carbohydrates
651.H93  Hydrocarbons
651.M38  Mercapto compounds. Thiols
651.M4   Methanol
651.N5   Nitrous oxide
651.P6   Polymers
         Thiols see QD651.M38
651.W3   Water
655      Particular types of radiation and chemical reaction, e.g. x-rays (not A-Z)

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

701     Periodicals, societies, congresses, serial publications
708     General works, treatises, and textbooks
           Through 1970
708.2    1971-
714      Addresses, essays, lectures
715      Special aspects of the subject as a whole
716.A-Z  Special topics, A-Z
716.F54  Flash photolysis
716.L37  Laser photochemistry
         Including femtochemistry
716.O95  Oxidation-reduction
716.P45  Photocatalysis
716.P47  Photochromism
716.P48  Photodissociation. Photoionization
         Class here general works on chemical and physical aspects of photoionization.
         For works on the physics of ionization produced by photons of light, X-rays or gamma rays
         see QC702.7.P48
716.P5   Photopolymerization
         Class here general works on photopolymerization
         For works on inorganic polymerization see QD196
         For works on organic polymerization see QD281.P6

719     Handbooks, tables, formulas, etc.
730.A-Z  Special groups of substances, A-Z
730.C65  Coordination compounds
         Polymers see QD381.9.P56
730.S35  Semiconductors
730.T73  Transition metal compounds
731.A-Z  Special substances. By chemical symbol of principal element, A-Z (Table Q1)

801     Sonochemistry
       Cf. TP156.A33 Industrial use of sounds and ultrasonics
850     Mechanical chemistry
Supramolecular chemistry
       Cf. QD380+ Macromolecules
875     Periodicals, societies, congresses, serial publications
876     Dictionaries and encyclopedias
Physical and theoretical chemistry
  Supramolecular chemistry -- Continued
  878     General works, treatises, and textbooks
  880     Electrochemistry of supramolecular compounds
  882     Supramolecular organometallic chemistry
Crystallography
  Cf. QE372+ Descriptive mineralogy
  901     Periodicals, societies, congresses, serial publications
  901.2   Collected works (nonserial)
  902     Dictionaries and encyclopedias
  902.5   Nomenclature, terminology, notation, abbreviations
History
  903     General works
  903.3.A-Z By region or country, A-Z
           Biography of crystallographers
  903.5   Collective
  903.6.A-Z Individual, A-Z
  903.8   Directories
  904     Early works through 1800
           General works, treatises, and textbooks
  905     1801-1969
           1970-
  906     Pictorial works and atlases
  906.3   Juvenile works
  906.5   Addresses, essays, lectures
  906.6   Special aspects of the subject as a whole
  906.7.A-Z Special topics, A-Z
         906.7.E37     Electron microscopy
         906.7.E4      Electronic data processing
         906.7.N83    Nuclear magnetic resonance spectroscopy
Statistical methods see QD919
Study and teaching. Research
  907     General works
  907.3   Problems, exercises, examinations
  907.5   Laboratory manuals
  907.7   Instruments and apparatus
  908     Handbooks, tables, formulas, etc.
Geometrical and mathematical crystallography
  911     General works
  912     Fundamental systems
           Including tetragonal, orthorhombic, monoclinic systems
  913     Diagrams
  915     Goniometric measurements
  919     Statistical methods
Crystal structure and growth
  Including crystal lattices, defects, and dislocations
For lattice dynamics see QC176.8.L3
  Cf. QD548 Crystallization in solutions
  Cf. QD549.2.C64 Colloidal crystals
  921     General works
  923     Liquid crystals
           Including polymer liquid crystals
           Cf. QC173.4.L55 Physics
           Cf. TP1180.P666 Chemical technology
  924     Photonic crystals
  925     Polycrystals
Crystallography
   Crystal structure and growth -- Continued
   926
   Quasicrystals
      Cf. QC173.4.Q36 Physics
   Physical properties of crystals
      Cf. QC176+ Solids, solid state physics
   931
   General works
   933
   Mechanical properties
      Including cohesion, elasticity, plasticity, cleavage, hardness
   937
   Thermal properties
   939
   Electric properties
      Cf. QC595 Pyroelectricity
      Cf. QC595.5 Piezoelectricity
   940
   Magnetic properties
   941
   Optical properties
      Including isotropy, anisotropy, refractivity, reflectivity, crystal rotation
      Cf. QC440+ Polarization
   945
   X-ray crystallography
   947
   Other physical properties (not A-Z)
   951
   Chemical crystallography
      Including relationships between structure and bonding, isomorphism, polymorphism,
         pseudomorphism
   999
   Miscellany and curiosa
Geology

For economic geology and mineral resources see TN1+
Cf. QB603.G46 Planetary geology
Cf. QH343.4 Geobiology
Cf. TA703+ Engineering geology
Cf. UG465+ Military geology

1 Periodicals, societies, congresses, serial publications
3 Collected works (nonserial)
4 Voyages and expeditions
5 Dictionaries and encyclopedias
6 Philosophy
7 Nomenclature, terminology, notation, abbreviations

History

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

Biography

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

23 Directories
25 Early works through 1800

General works, treatises, and advanced textbooks

26 1801-1969
26.2 1970-2000
26.3 2001-

Elementary textbooks

28 General
28.2 Physical geology
28.3 Historical geology

29 Juvenile works
31 Popular works

33 Special aspects of the subject as a whole

33.2.A-Z Special topics, A-Z
33.2.A3 Aerial photography in geology
33.2.A7 Artificial satellites in geology
33.2.B6 Borings
33.2.C48 Chaotic behavior in systems
33.2.C5 Charts, diagrams, etc.
  Computer simulation see QE48.8
  Data processing see QE48.8
33.2.F73 Fractals
33.2.H54 High pressure geosciences
33.2.M3 Mathematical geology
33.2.P47 Periodicity
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
Geology as a profession. Vocational guidance
Addresses, essays, lectures
Geological maps
  Class here works on making, interpretation, and use of geological maps
  For the maps themselves see G3200+
Special fields
Agricultural geology
Engineering geology see TA703+
Environmental geology
Forensic geology
Military geology see UG465+
Submarine geology
  For submarine geology of a particular body of water, see QE350.2+
  Cf. GC83+ Submarine topography
  Cf. QE511.7 Sea-floor spreading
Special fields
Paleobiology see QE719.8
Paleoceanography
Paleoecology see QE720+
Paleogeography see QE501.4.P3
Paleohydrology
Paleolimnology
Paleomagnetism see QE501.4.P35
Paleopedology see QE473
Paleoseismology see QE539.2.P34
Urban geology
  For urban geology of a particular place see QE65+
Study and teaching. Research
General works
Outlines, syllabi
Problems, exercises, examinations
Models, diagrams, etc.
Laboratory manuals
Fieldwork
  By region or country
  United States
  General works
  By region or state, A-Z
    Subarrange each state by Table Q7
Other regions or countries, A-Z
  Other regions or countries, A-Z
    Subarrange each country by Table Q7
Awards
Data processing
  Including computer simulation
Communication in geology
  General works
  Information services
  Computer network resources
    Including the Internet
Laboratories
  General works
  By region or country, A-Z
    Subarrange each country by Table Q6
Instruments and apparatus
Collection and preservation
Museums. Exhibitions

51.A1 General works
51.A2-Z By region or country, A-Z
    Subarrange each country by Table Q5
52 Handbooks, tables, formulas, etc.
53 Miscellany and curiosa
55 Dealers’ catalogs of specimens
61 Surveys (History, organization, etc.)

Geographical divisions

65 Miscellaneous regions
    e.g. British empire
70 Arctic regions. Greenland
    America
70.5 General works
    North America
71 General works
    United States
    Surveys (General)
72 Surveys, before 1861
74 Surveys, 1865-1879
    United States Geological Survey
75 General publications of the USGS
76 Works about the USGS
77 General works

Special regions

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

By state
    Class counties, physiographic regions, etc. in the local number
    Alabama
81 General works
82.A-Z Local, A-Z
    Alaska
83 General works
84.A-Z Local, A-Z
    Arizona
85 General works
86.A-Z Local, A-Z
    Arkansas
87 General works
88.A-Z Local, A-Z
    California
89 General works
90.A-Z Local, A-Z
    Colorado
91 General works
92.A-Z Local, A-Z
    Connecticut
93 General works
94.A-Z Local, A-Z
    Delaware
95 General works
Geographical divisions
America
North America
United States
By state

Delaware -- Continued
Local, A-Z

District of Columbia
Florida

General works
Local, A-Z

Georgia

General works
Local, A-Z

Hawaii see QE349.H3

Idaho

General works
Local, A-Z

Illinois

General works
Local, A-Z

Indiana

General works
Local, A-Z

Iowa

General works
Local, A-Z

Kansas

General works
Local, A-Z

Kentucky

General works
Local, A-Z

Louisiana

General works
Local, A-Z

Maine

General works
Local, A-Z

Maryland

General works
Local, A-Z

Massachusetts

General works
Local, A-Z

Michigan

General works
Local, A-Z

Minnesota

General works
Local, A-Z

Mississippi

General works
Local, A-Z

Missouri

General works
Geographical divisions
America
North America
United States
By state

Missouri -- Continued
Local, A-Z
Montana
General works
Nebraska
Local, A-Z
Nevada
General works
New Hampshire
Local, A-Z
New Jersey
General works
New Mexico
Local, A-Z
New York
General works
North Carolina
Local, A-Z
North Dakota
General works
Ohio
Local, A-Z
Oklahoma
General works
Oregon
Local, A-Z
Pennsylvania
General works
Rhode Island
Local, A-Z
South Carolina
General works
South Dakota
Local, A-Z
Tennessee
Geographical divisions
America
North America
United States
By state
Tennessee -- Continued
165 General works
166.A-Z Local, A-Z
Texas
167 General works
168.A-Z Local, A-Z
Utah
169 General works
170.A-Z Local, A-Z
Vermont
171 General works
172.A-Z Local, A-Z
Virginia
173 General works
Washington (State)
175 General works
176.A-Z Local, A-Z
West Virginia
177 General works
178.A-Z Local, A-Z
Wisconsin
179 General works
180.A-Z Local, A-Z
Wyoming
181 General works
182.A-Z Local, A-Z
Canada
185 General works
186 Alberta
187 British Columbia
188 Manitoba
189 New Brunswick
190 Nova Scotia
191 Ontario
192 Prince Edward Island
193 Québec (Province)
194 Saskatchewan
195 Yukon
196.A-Z Other northern territories, A-Z
(196.B3) Baffin Island
see QE196.N86
196.F7 Franklin
196.H8 Hudson Bay
(196.K4) Keewatin
see QE196.N86
Labrador see QE199
196.N7 Northwest Territories
Including Mackenzie
196.N86 Nunavut
Including Baffin Island, Keewatin
Geographical divisions

America
North America
Canada
Other northern territories, A-Z -- Continued
Ungava see QE193

199
Newfoundland and Labrador

Latin America

200
General works
Mexico

201
General works

203.A-Z
Local, A-Z

Central America

210
General works
211
Belize
212
Costa Rica
213
Guatemala
214
Honduras
215
Nicaragua
216
Panama
217
El Salvador

West Indies. Caribbean Area

220
General works
221
Bahamas
222
Cuba
223
Haiti
224
Jamaica
225
Puerto Rico
226.A-Z
Other, A-Z
226.A5
Antigua and Barbuda
226.A53
Antilles, Lesser
226.B35
Barbados
British Virgin Islands see QE226.V53
226.C39
Cayman Islands
226.D7
Dominican Republic
Lesser Antilles see QE226.A53
226.M4
Martinique
226.S13
Saba
226.S175
Saint Martin
226.S56
Sint Eustatius
226.T8
Trinidad and Tobago
United States Virgin Islands see QE226.V55
Virgin Islands
226.V5
General works
226.V53
British Virgin Islands
226.V55
United States Virgin Islands

229
Bermuda

South America

230
General works
231
Argentina
233
Bolivia
235
Brazil
237
Chile
239
Colombia
241
Ecuador
Guianas
Geographical divisions

America

Latin America

South America

Guianas -- Continued

243
General works

243.2
Guyana (British Guiana)

243.3
Suriname (Dutch Guiana)

243.4
French Guiana

245
Paraguay

247
Peru

249
Uruguay

251
Venezuela

South Atlantic islands

256
General works

257
Falkland Islands

258.A-Z
Other South Atlantic islands, A-Z

E.g.

258.S6
South Georgia Island

Europe

Great Britain

261
General works

262.A1
General works

262.A3-Z
Local, A-Z

E.g.

262.A6
Anglesey

262.B75
Broads, The

262.D36
Dean, Forest of

262.E3
England

262.G5
Gloucestershire

262.L2
Lake District

262.M2
Man, Isle of

262.P8
Purbeck, Isle of

262.W2
Wales

262.W6
Wight, Isle of

264
Scotland

265
Ireland

266
Austria

266.2
Hungary

267
Czechoslovakia. Czech Republic

267.15
Slovakia

267.2
Liechtenstein

268
France

269
Germany

271
Greece

272
Italy

272.5
Malta

273
Netherlands

274
Belgium

275
Luxembourg

276
Soviet Union. Russia (Federation)

Cf. QE315 Central Asia

276.3
Finland

276.5
Poland

Baltic States
Geographical divisions

Europe

Baltic States -- Continued

276.7 General works
276.72 Estonia
276.74 Latvia
276.76 Lithuania
277 Scandinavia
278 Denmark
278.5 Faroe Islands
279 Iceland
281 Norway
282 Sweden
283 Spain
284 Portugal. Azores
285 Switzerland. Alps

Balkan States

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

Asia

289 General works
290 Afghanistan

Arabian Peninsula

291.A1 General works
291.A3-Z By region or country, A-Z
291.A3 Aden
291.K9 Kuwait
291.M9 Muscat and Oman. Oman

Oman see QE291.M9
291.S28 Saudi Arabia

294 China
294.3 Taiwan
294.5 Mongolia
295 India
295.2 Burma. Myanmar
295.3 Sri Lanka
295.4 Pakistan
295.5 Bangladesh
296 Indochina
Geographical divisions

Asia -- Continued

298
Thailand
299
Malay Peninsula. Straits Settlements
299.5
Malaysia
Indonesia. Dutch East Indies

301.A1
General works
301.A3-Z
By region, island, etc., A-Z
e.g.
301.A5
Amboina
301.B7
Borneo
301.C4
Celebese
301.C45
Ceram
(301.D8) Dutch East Indies
see QE301.A1

301.J4
Java
301.K3
Kabaena Island
301.M7
Moluccas
301.S9
Sumatran
301.S94
Sunda Islands
301.T5
Timor

302
Philippines
304
Japan
305
Korea
Including South Korea
305.2
North Korea
307
Iran
307.2
Iraq
315
Cf. QE276 Russia (Federation)

316
Turkey
317
Armenia
318
Israel. Palestine
318.2
Jordan
318.3
Lebanon
318.4
Syria
319.A-Z
Other regions or countries, A-Z
319.B46
Bengal Basin
319.C9
Cyprus
319.G35
Gangetic Plain
319.H5
Himalaya Mountains
319.N4
Near East. Middle East
319.O54
Oman Mountains (Oman and United Arab Emirates)
319.S67
Southeast Asia
319.5
Arab countries (General)

Africa
320
General works
321
Ethiopia
Former British possessions
325
South Africa
325.5
Central Africa (General)
326
East Africa (General)
327.A-Z
Other, A-Z
327.B3
Basutoland. Lesotho.
327.B4
Bechuanaland. Botswana
Cameroon see QE339.C35
Geographical divisions
Africa
Former British possessions
Other, A-Z -- Continued
327.G6
Ghana. Gold Coast
327.K4
Kenya
Lesotho see QE327.B3
Malawi see QE327.N8
327.N5
Nigeria
327.N8
Nyasaland. Malawi
327.R55
Northern Rhodesia. Zambia
327.R6
Rhodesia, Southern. Zimbabwe
327.S2
Saint Helena
327.S5
Sierra Leone
327.S6
Sokotra (Yemen)
327.S77
Sudan
327.S8
Swaziland
327.T3
Tanzania. Tanganyika
327.U4
Uganda
West Cameroon see QE339.C35
Zambia see QE327.R55
327.Z3
Zanzibar
Zimbabwe see QE327.R6
328
Egypt
Former French possessions
329
Algeria
329.2
Tunisia
330
Madagascar
331.A-Z
Other, A-Z
331.B45
Benin
Burkina Faso see QE331.U64
Cameroun see QE339.C35
Central African Republic see QE331.U2
331.C53
Chad
Côte d'Ivoire see QE331.I9
Dahomey see QE331.B45
331.D5
Djibouti
331.F65
French Equatorial Africa
French Somaliland see QE331.D5
331.F7
French West Africa
331.G3
Gabon
331.G8
Guinea
331.I9
Ivory Coast. Côte d'Ivoire
331.M27
Mali
331.M3
Mauritania
Morocco see QE339.M8
331.N5
Niger
331.U2
Ubangi-Shari. Central African Republic
331.U64
Upper Volta. Burkina Faso
332
Former German possessions
Cf. QE339.C35 Kamerun
334
Former Italian possessions. Libya
335
Congo (Democratic Republic). Zaire
335.5
Congo (Brazzaville)
337
Former Portuguese possessions
General works
Geographical divisions

Africa

Former Portuguese possessions -- Continued

337.3 Mozambique
337.5 Angola
337.6 Cabo Verde
337.7 Guinea-Bissau

338 Spanish possessions

339.A-Z Other regions or countries, A-Z
339.B85 Burundi
339.C35 Cameroon
339.L5 Liberia
339.M8 Morocco
339.N34 Namibia
339.N66 Northeast Africa
339.N67 Northwest Africa
339.R85 Rwanda
339.S2 Sahara
339.S6 Somalia
339.S68 Southern Africa
339.S8 Sub-Saharan Africa
339.W46 West Africa

Indian Ocean islands

339.5 General works
339.6.A-Z By region, island, etc., A-Z
339.6.M35 Maldives
339.6.R48 Réunion
339.6.S48 Seychelles

Australasia

339.8 General works
340 Australia
341 New South Wales
(342) New Zealand
   see QE348.2
343 North Australia. Northern Territory
344 Queensland
345 South Australia
346 Tasmania
347 Victoria
348 Western Australia
348.2 New Zealand
348.4 Papua New Guinea
349.A-Z Pacific islands, A-Z
   e.g.
349.F5 Fiji
349.H3 Hawaii
349.M35 Marshall Islands
349.N43 New Hebrides. Vanuatu
349.O4 Oceania
349.S64 Solomon Islands
349.T66 Tonga
350 Antarctica

Atlantic Ocean

350.2 General works
350.22.A-Z Local major divisions, A-Z
Geographical divisions

Atlantic Ocean

Local major divisions, A-Z -- Continued

350.22.B34 Baltic Sea
350.22.B37 Barents Sea
350.22.B55 Black Sea
350.22.B65 Bothnian Sea
350.22.C37 Caribbean Sea
350.22.E52 English Channel
350.22.G53 Gibraltar, Straits of
350.22.G73 Greenland-Iceland Sea
350.22.L33 Labrador Sea
350.22.M32 Maine, Gulf of
350.22.M42 Mediterranean Sea
350.22.M48 Mexico, Gulf of
350.22.M5 Mid-Atlantic Bight
350.22.M52 Mid-Atlantic Ridge
350.22.N65 North Atlantic Ocean
350.22.N67 North Sea
350.22.N68 Norwegian Sea
350.22.R48 Reykjanes Ridge
350.22.S68 South Atlantic Ocean

Straits of Gibraltar see QE350.22.G53

Pacific Ocean

350.4 General works
350.42.A-Z Local major divisions, A-Z
350.42.A43 Alaska, Gulf of
350.42.B45 Bering Sea Region
350.42.C45 China Sea
350.42.E27 East China Sea
350.42.J34 Japan Sea
350.42.N65 North Pacific
350.42.O44 Okhotsk Sea
350.42.P45 Philippine Sea
350.42.S66 South China Sea
350.42.S68 South Pacific Ocean
350.42.T35 Taiwan Strait
350.42.T37 Tasman Sea

Indian Ocean

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

Arctic Ocean

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

Mineralogy

For crystallography see QD901+
Cf. QB455.2 Astromineralogy

351 Periodicals, societies, congresses, serial publications
353 Collected works (nonserial)
355 Dictionaries and encyclopedias
357 Nomenclature, terminology, notation, abbreviations

History

359.A1 General works
Mineralogy

History -- Continued

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

Biography

361.A2
Collective

361.A3-Z
Individual, A-Z

e.g.

361.C5
Clarke
Dana, James Dwight see QE22.D25

361.H2
Haidinger

361.2
Directories

362
Early works through 1800

General works, treatises, and textbooks

363
1801-1969

363.2
1970-

363.8
Pictorial works and atlases

364
Special aspects of the subject as a whole

364.2.A-Z
Special topics, A-Z

364.2.E4
Electronic data processing

364.2.F47
Fluid inclusions

364.2.F5
Fluorescent minerals

364.2.H4
Heavy minerals

364.2.H54
High pressure

364.2.M37
Metallogeny

364.2.M4
Metasomatism

364.2.P3
Paragenesis

364.2.R3
Radioactive minerals

Rock-forming minerals see QE397

364.2.S7
Statistical methods

364.2.S87
Surfaces

364.2.T45
Thermodynamics

365
Popular works

365.2
Juvenile works

366
Study and teaching. Research

Mineralogical laboratories

366.15
General works

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

Subarrange each country by Table Q6

366.2
Collection and preservation

For mineral collecting in specific geographic regions see QE373+

366.8
Handbooks, tables, formulas, etc.

Determinative mineralogy

For assaying see TN550+

Cf. QD87 Blowpipe analysis

General works, treatises, and textbooks

367
1801-1969

367.2
1970-

368.9
Special aspects of the subject as a whole

369.A-Z
Special topics, A-Z

369.C6
Colloidal determinations

369.D5
Differential thermal analysis

369.F4
Fedorovskii method

369.I55
Immersion method

369.M5
Microscopic determinations

369.O6
Optical determinations

369.P49
Physical properties
Mineralogy
   Determinative mineralogy
   Special topics, A-Z -- Continued
   369.S6
   Specific gravity determinations
   369.S65
   Spectrum analysis
   369.U4
   Ultraviolet
   369.X2
   X-ray powder
   371
   Mineralogical chemistry
   Descriptive mineralogy
   General works, treatises, and textbooks
   372
   1801-1969
   372.2
   1970-
   Geographical divisions
   North America
   373
   General works
   United States
   375
   General works
   375.5.A-Z
   By region or state, A-Z
   Canada
   376
   General works
   376.5.A-Z
   By region, province, or territory, A-Z
   Mexico
   377
   General works
   377.5.A-Z
   By region or state, A-Z
   Central America
   377.7.A1
   General works
   377.7.A3-Z
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   West Indies. Caribbean Area
   378.A1
   General works
   378.A3-Z
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   South America
   379.A1
   General works
   379.A3-Z
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   Europe
   381.A1
   General works
   381.A3-Z
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   Asia
   382.A1
   General works
   382.A3-Z
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   Africa
   383.A1
   General works
   383.A3-Z
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   Australia
   384
   General works
   384.2.A-Z
   By region, state, or territory, A-Z
   New Zealand
   384.5
   General works
   384.7.A-Z
   By region or statistical area, A-Z
   Pacific islands
   385.A1
   General works
Mineralogy
   Descriptive mineralogy
   Geographical divisions
   Pacific islands -- Continued
   Offshore islands generally class with adjacent mainland
   Arctic regions
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   Antarctica
   General works
   By region, country, or island, A-Z
   Offshore islands generally class with adjacent mainland
   Museums. Exhibitions
   General works
   By region or country, A-Z
   Subarrange each country by Table Q5
   Dealers’ catalogs of specimens
   Classification
   Special groups of minerals
   Descriptive and determinative
   General works
   Native elements
   Sulfides, selenides, tellurides, arsenides, antimonides
   Sulfosalt (Sulfarsenites, sulfantimonites, sulfobismuthites)
   Halides (Chlorides, bromides, iodides, fluorides)
   Oxides
   Oxygen salts
   General works
   Carbonates
   Including aragonite
   Silicates, titanates
   General works
   Clay minerals
   Niobates, tantalates
   Phosphates, arsenates, vanadates, antimonates, nitrates
   Borates, uranates
   Sulfates, chromates, tellurates
   Tungstates, molybdates
   Salts of organic acids: oxalates, mellates, etc.
   Hydrocarbon compounds
   General works
   Coal see TN805+
   Petroleum see TN870.5+
   Ore minerals (General)
   General works
   Special ore minerals, A-Z
   Antimony ores
   Beryllium ores
   Boron ores
   Cobalt ores
   Copper ores
   Gold ores
   Iron ores
   Lead ores
Mineralogy
   Special groups of minerals
   Ore minerals (General)
      Special ore minerals, A-Z -- Continued

390.2.L57  Lithium ores
390.2.M35  Manganese ores
390.2.M47  Mercury ores
390.2.N53  Nickel ores
390.2.P56  Platinum ores
390.2.R37  Rare earth ores
390.2.S55  Silver ores
390.2.T42  Tellurium ores
390.2.T45  Thorium ores
390.2.T48  Tin ores
390.2.T5  Titanium ores
390.2.T85  Tungsten ores
390.2.U7  Uranium ores
390.2.V36  Vanadium ores
390.2.Z54  Zinc ores
390.5  Hydrothermal deposits. Hydrothermal alteration
391.A-Z  Description of special minerals, A-Z
391.A18  Acmite
391.A2  Actinolite
   Agate see QE391.Q2
391.A4  Allanite
391.A45  Alunite
391.A48  Amazonite
391.A5  Amber
391.A53  Amphiboles
391.A55  Analcime
391.A57  Andesine
391.A572  Andorite
391.A573  Anhydrite
391.A6  Apatite
391.A8  Augite
391.B2  Babingtonite
391.B35  Barite
391.B5  Benitoite
391.B55  Bentonite
391.B6  Beryl
391.B64  Biotite
391.B7  Bøggildite
391.B73  Boehmite
391.B75  Botryogen
391.B78  Brannerite
391.B82  Brucite
391.C2  Calcite
391.C25  Cassiterite
391.C3  Celadonite
391.C32  Celestite
391.C35  Chalcocite
391.C38  Chalybite
391.C392  Chamosite
391.C396  Charoite
391.C4  Chert
391.C5  Chlorite
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Description of special minerals, A-Z -- Continued

391.C6          Chondrodite
391.C65         Chromite
391.C657        Chrysoberyl
391.C67         Chrysotile
391.C8          Colemanite
391.C84         Cookeite
391.C9          Corundum
391.C94         Cuprodescoizite
391.D3          Datolite
391.D6          Dolomite
391.D8          Durangite
391.E43         Electrum
391.E5          Endlichite
391.E6          Enstatite
391.E8          Epidote
391.E9          Evansite
391.F3          Feldspar
391.F4          Ferberite
391.F45         Ferrierite
391.F6          Fluorspar
391.G3          Galena
391.G37         Garnet
391.G5          Glauconite
391.G55         Gmelinite
391.G6          Gold
391.G8          Gunnbjarnite
391.G93         Gypsum
391.H34         Hedenbergite
391.H38         Helvite
391.H4          Hematite
391.H5          Hercynite
391.H55         Heulandite
391.H8          Hortonolite
391.H84         Huebnerite
391.H86         Humite
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391.I4          Ilimaussite
391.I44         Ilmenite
391.I53         Indianite
391.I7          Iron
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391.J25         Jarosite
Jasper see QE391.Q2
391.K2          Kaolinite
391.L28         Lawsonite
391.L3          Lazurite
391.L4          Leucite
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391.L5          Liebigite
391.L8          Ludwigite
391.M2          Magnelite
391.M22         Magnetite
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Description of special minerals, A-Z -- Continued

391.M25  Malachite
391.M3   Marcasite
391.M34  Meerschaum
391.M4   Melanosiderite
391.M45  Merumite
391.M6   Mica
391.M67  Moissanite
391.M7   Molybdenite
391.M75  Monazite
391.M8   Mordenite
391.M85  Muscovite
391.N27  Natrolite
391.N3   Naujakasite
            Nephrite see QE391.A2
391.O45  Olivine
            Opal see QE394.O7
            Palacheite see QE391.B75
391.P34  Palygorskite
391.P44  Pecoraite
391.P47  Perovskite
391.P48  Petalite
391.P5   Pickeringite
391.P55  Plagioclase
391.P56  Pollucite
391.P8   Pyrophylite
391.P84  Pyroxene
391.P86  Pyroxmangite
391.P9   Pyrrhotite
391.Q2   Quartz
            Ramirite see QE391.C94
391.R5   Riebeckite
391.R7   Roscoelite
391.R88  Rutile
391.S25  Sapphirine
391.S28  Scapolite
391.S3   Scheelite
            Schungite see QE475.S39
            Sepiolite see QE391.M34
391.S47  Serpentine
391.S49  Siderite
391.S5   Sillimanite
391.S6   Smectite
391.S65  Sphalerite
391.S67  Sphene
391.S68  Spinel
391.S7   Spodumene
391.S73  Stannite
391.S75  Staurolite
391.S77  Stenonite
391.S8   Stichtite
391.T2   Talc
391.T3   Tephiroite
391.T4   Tetradymite
391.T6   Topaz
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391.T7  Tourmaline
391.T8  Trona
391.T85 Tugtupite
391.U65 Uraninite
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391.V35 Vanadinite
391.V5  Vermiculite
391.V55 Vesuvianite
391.V6  Villiaumite
391.V64 Vivianite
391.V68 Volkonskoite
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391.W6  Wolframite
391.W66 Wollastonite
391.Z5  Zeolites
391.Z7  Zircon
391.Z8  Zoisite
Precious stones
Cf. NK7650+ Art industries
Cf. TN980+ Mining
Cf. TS747+ Jewelry manufacture
392  General works, treatises, and textbooks
392.2  Juvenile works
392.5.A-Z By region or country, A-Z
393  Diamonds
394.A-Z Other precious stones, A-Z
394.A4  Amethysts
394.E5  Emeralds
394.J3  Jade
394.J46 Jet
394.L37 Lapis lazuli
394.O7  Opals
394.R8  Rubies
394.S3  Sapphires
394.T8  Turquoise
396  Leucoxene
397  Rock-forming minerals
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399  Tektites
For fluorescent minerals see QE364.2.F5
399.2  Miscellany and curiosa
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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
430  Early works through 1800
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431  1801-1969
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431.2 1970-
431.5 Special aspects of the subject as a whole
431.6.A-Z Special topics, A-Z
431.6.A25 Acoustic properties
431.6.E4 Electric properties
431.6.M3 Magnetic properties
431.6.M4 Mechanical properties
431.6.O7 Ores
431.6.P4 Petrogenesis
431.6.P5 Physical properties
431.6.P6 Porosity
431.6.T45 Thermal properties
431.6.W38 Water-rock interaction
432 Popular works
432.2 Juvenile works
432.5 Addresses, essays, lectures
Study and teaching. Research
432.7 General works
433 Laboratory manuals
433.5 Instruments and apparatus
433.6 Collection and preservation
For rock collecting in specific geographic regions see QE443+
433.7 Data processing
433.8 Handbooks, tables, formulas, etc.
434 Microscopic analysis of rocks. Thin sections
435 X-ray petrology
438 Chemical analysis of rocks
440 Petrofabric analysis
Including petrofabric diagrams
Museums. Exhibitions
442.A1 General works
442.A2-Z By region or country, A-Z
Subarrange each country by Table Q5
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443 General works
United States
444 General works
445.A-Z By region or state, A-Z
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445.5 General works
446.A-Z By region or province, A-Z
Greenland see QE456.G73
Mexico
446.5 General works
446.6.A-Z By region or state, A-Z
447 Central America (Table Q3)
448 West Indies. Caribbean Area (Table Q3)
448.5 Atlantic Ocean islands (Table Q3)
Greenland see QE456.G73
449 South America (Table Q3)
451 Europe (Table Q3)
Greenland see QE456.G73
452 Asia (Table Q3)
Petrology

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453
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Indian Ocean islands

453.2
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453.3.A-Z
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Australasia

453.45
General works
Australia

453.5
General works

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

454.5
General works

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

Pacific islands

455.A1
General works

455.A3-Z
By region, country, or island, A-Z
Offshore islands generally class with adjacent mainland

Polar regions

455.8
General works

456
Arctic regions (Table Q3)

456.A1
General works

456.A3-Z
By region, country, or island, A-Z
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456.G73
Greenland

456.5
Antarctica (Table Q3)

456.5.A1
General works

456.5.A3-Z
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456.8
Tropics
Igneous rocks, volcanic ash, tuff, etc.

461
General works

462.A-Z
Special, A-Z

462.A34
Adakite

462.A35
Alaskite

462.A37
Albitite

462.A4
Alkaline igneous rocks

462.A5
Andesite

462.A55
Anorthosite

462.A63
Aplite

462.B3
Basalt

462.B65
Boninite

462.C36
Carbonatite

462.C5
Charnockite

462.D5
Diabase

462.D56
Diorite

462.F4
Fenite

462.G3
Gabbro

462.G7
Granite

462.G75
Granodiorite

462.G77
Greenstone

462.H67
Hornblende

462.I35
Ignimbrite

462.K44
Keratophyre

462.K5
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Petrology
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462.K66 Komatiite
462.L35 Lamproite
462.L37 Latite
462.L48 Leucitite
462.M6 Monzonite
462.N4 Nepheline syenite
462.O28 Obsidian
462.O43 Olivinite
462.O6 Ophiolites
462.O73 Orangeite
462.P4 Pegmatites
462.P43 Pegmatoids
462.P45 Peridotite
462.P6 Porphyry
462.P7 Propylite
462.R4 Rhyolite
462.S65 Spilites
462.S95 Syenite
462.T73 Trachyte
462.T74 Trondhjemite
462.U4 Ultrabasic rocks
462.V64 Volcanite

Sedimentary rocks. Sedimentology
For sedimentation see QE571+

471 General works
471.15.A-Z Special, A-Z
471.15.A68 Arenites
471.15.A7 Arkose
471.15.B32 Bauxite
471.15.B34 Beachrock
471.15.B4 Bentonite
471.15.B7 Breccia
471.15.C27 Calcretes
471.15.C3 Carbonate rocks
471.15.C4 Chert
471.15.C58 Concretions
471.15.C6 Conglomerate
471.15.D6 Dolomite
471.15.E8 Evaporites
471.15.F47 Flint
471.15.F5 Flysch
471.15.G4 Geodes
471.15.L5 Limestone
471.15.M44 Melanges
471.15.M83 Mudstone
471.15.O5 Oolite
471.15.P48 Phosphate rock see QE471.15.P48
471.15.P48 Phosphorite. Phosphate rock
471.15.S2 Salt
471.15.S25 Sandstone
471.15.S5 Shale
471.15.S54 Siltstone
Petrology

Sedimentary rocks. Sedimentology

Special, A-Z -- Continued

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<td>Tonsteins</td>
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<td>473</td>
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Metamorphic rocks. Metamorphism

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Dynamic and structural geology

Physical and tectonic

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Isotope geology see QE501.4.N9

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<td>Upper mantle project</td>
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505  Addresses, essays, lectures
505.5  Study and teaching. Research
506  Geological cosmogony
507  Deluge, etc.
508  Geological time. Age of the earth
      Including age determination, radioactive dating
      Interior of the earth. Internal structure of the earth
509  General works
509.2  Core
509.3  Core-mantle boundary
509.4  Mantle
509.5  Temperature
511  Earth's crust. Isostasy
      Including continental crust, cratons, and glacial isostasy
      Cf. QB331 Gravity determinations
511.2  Island arcs
      Plate tectonics
511.4  General works
511.42  Neotectonics
511.44  Morphotectonics
511.46  Subduction zones
511.48  Suture zones
511.5  Continental drift
      Including Gondwana, Pangaea
511.7  Sea-floor spreading
512  Epeirogeny
513  Salt tectonics
Geochemistry
      Cf. QH343.7+ Biogeochemistry
514  Periodicals, societies, congresses, serial publications
      Biography
514.6  Collective
515  General works, treatises, and textbooks
Geographical divisions
      North America
515.15  General works
      United States
515.16  General works
515.17.A-Z  By region or state, A-Z
515.18-.185  Canada
515.18  General works
515.185.A-Z  By region or province, A-Z
      Greenland see QE515.46.G73
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515.19  General works
515.195.A-Z  By region or state, A-Z
515.2  Central America (Table Q3)
515.23  West Indies. Caribbean Area (Table Q3)
515.25  South America (Table Q3)
515.27  Atlantic Ocean islands (Table Q3)
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515.28  Europe (Table Q3)
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515.3  Asia (Table Q3)
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515.33  Africa (Table Q3)
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515.4  General works
515.42.A-Z  By region, territory, or island, A-Z
515.43  Pacific islands (Table Q3)
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515.45  General works
515.46  Arctic regions (Table Q3)
515.46.G73  Greenland
515.47  Antarctica (Table Q3)
515.49  Tropics
515.5.A-Z  Special topics, A-Z
515.5.D37  Data processing
515.5.G43  Geochemical modeling
515.5.G45  Geochemical self-organization
515.5.K55  Kinetics
515.5.R45  Remote sensing
515.5.T46  Thermodynamics
516.A-Z  Special elements and groups of elements, A-Z (Table Q1 modified)
516.A35  Alkali metals
516.C37  Carbon
   Including 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
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
521.3  Juvenile works
Volcanoes. Volcanism
   Including supervolcanoes
521.5  Periodicals, societies, congresses, serial publications
522  General works, treatises, and textbooks
   Including individually named groups
   e.g.
Dynamic and structural geology
Volcanoes and earthquakes
Volcanoes, Volcanism
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523.C47 Chichon (Mexico)
523.C7 Colima (Mexico : Volcano)
523.E8 Etna, Mount (Italy)
523.E95 Eyjafjallajökull Volcano (Iceland)
523.F68 Fournaise, Piton de la (Réunion)
523.F8 Fuji, Mount (Japan)
523.K3 Katmai, Mount (Alaska)
523.K5 Kilauea Volcano (Hawaii)
523.K73 Krakatoa (Indonesia)
523.M47 Merapi Volcano (Java, Indonesia)
523.O57 Ontake Mountain (Japan)
523.P3 Pelée, Mount (Martinique)
523.P56 Piton de la Fournaise (Réunion) see QE523.F68
523.P8 Popocatépetl (Mexico)
523.S23 Saint Helens, Mount (Wash.)
523.S27 Santorini Volcano (Greece)
523.S68 Soufrière (Guadeloupe)
523.V5 Vesuvius, Mount (Italy)

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Including Hawaii
524 General works
524.2.A-Z By region or country, A-Z
For individual volcanoes see QE523.A+

Eastern Hemisphere. Europe, Africa
526 General works
526.2.A-Z By region or country, A-Z
For individual volcanoes see QE523.A+

Eastern Hemisphere. Asia, Australasia
527 General works
527.2.A-Z By region or country, A-Z
For individual volcanoes see QE523.A+

527.3 Pacific Area (General)
527.4 Antarctica
527.5 Prediction of volcanic activity
Including volcano monitoring
527.55 Remote sensing
527.56 Tephrochronology
527.6 Volcanic hazard analysis. Safety measures
For hazard analysis or safety measures in specific geographic regions see QE523+
527.7 Volcanic plumes
527.73 Lava flows
527.75 Volcanic gases and vapors
Including volcanic gas reservoirs

528 Geysers, hot springs, etc.
529 Miscellany and curiosa
Earthquakes. Seismology
Cf. TC181 Earthquakes and hydraulic structures
Cf. TC542.5 Earthquakes and dams
Cf. TF539 Damage to railroads
Cf. TH1095 Earthquakes and building
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532.A-Z
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Including serial collections issued by individual observatories
533
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534
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534.3
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535.2.A-Z
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536.2.A-Z
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537.2.A-Z
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538.5
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539.2.D36
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539.2.E42
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539.2.I46
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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
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539.2.S34
Safety measures. Hazard analysis
For safety measures or hazard analysis in specific geographic regions, see QE535+
539.2.S37
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539.2.S4
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539.2.S43
Seismic traveltime inversion
539.2.S73
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540.A2
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540.A5-Z
By region or country, A-Z
Under each country:
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.x2A-.x2Z Individual observatories. By name, A-Z
541
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Including tables, calculations, seisomgrams, etc.
(545)
Volcanic gases and vapors
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Coral islands and reefs. Atolls
Cf. GB461+ Geomorphology
565
General works
Dynamic and structural geology
Coral islands and reefs. Atolls -- Continued

565.5.A-Z
By region or country, A-Z
   For individual coral reefs and islands see QE566.A+

566.A-Z
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   e.g.
566.F35
      Fangataufa Atoll
566.G7
      Great Barrier Reef (Qld.)
566.M87
      Mururoa Atoll

570
Weathering
   Including paleoweathering

Sedimentation
   Including erosion and deposition
   For sedimentary rocks and sedimentology see QE471+

571
General works
573
Cryopedology
575
Glacial erosion
   Cf. GB581+ Glacial landforms
   Cf. QE697+ Pleistocene

576
Periodicals, societies, congresses, serial publications
578
General works, treatises, and textbooks
579
Moraines, eskers, kames
579
Drift. Loess

581
Aqueous erosion
   Cf. S622+ Agriculture

587
Eversion

597
Aerial erosion

Earth movements. Mass movements
   For descriptive works, disasters, etc., see DA+

598
Periodicals, societies, congresses, serial publications
598.2
General works, treatises, and textbooks
598.3
Juvenile works

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

599.A1
Periodicals, societies, congresses, serial publications
599.A2
General works, treatises, and textbooks
599.A5-Z
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599.2
Landslide hazard analysis
   For hazard analysis in specific geographic regions see QE599.A5+

600
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   Periodicals, societies, congresses, serial publications
600.2
General works, treatises, and textbooks
600.3.A-Z
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601
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601.2
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601.3.A-Z
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601.3.D37
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601.3.M38
   Mathematics
601.3.S83
   Stereographic projection
601.8
   Problems, exercises, examinations
602
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604
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605
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   Faults and folds
Dynamic and structural geology

Structural geology

Faults and folds -- Continued

606
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606.3.A-Z
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606.3.A58
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606.3.S96
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606.5.A-Z
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607
General works, treatises, and textbooks

607.5.A-Z
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(608)
Metamorphism

see QE475

Veins, dikes, necks, bosses, laccoliths, and other intrusive bodies

Cf. TN263 Ore deposits

611
General works, treatises, and textbooks

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

Impact craters

612
General works, treatises, and textbooks

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

Cryptoexplosion structures

613
General works, treatises, and textbooks

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

Basins. Sedimentary basins

615
General works, treatises, and textbooks

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

Mountain building. Orogeny

621
General works

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

Effects of plants, animals, and man in geology

Cf. QR103 Geomicrobiology

Geographical divisions

North America

626
General works

United States

627
General works

627.5.A-Z
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Canada

628
General works

628.5.A-Z
By region, province, or territory, A-Z

Mexico

629
General works

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

Central America

630.A1
General works

630.A3-Z
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Offshore islands generally class with adjacent mainland

West Indies. Caribbean Area

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

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632.A1
General works

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

Offshore islands generally class with adjacent mainland

Europe
Dynamic and structural geology

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633.A1  General works
633.A3-Z  By region, country, or island, A-Z
  Offshore islands generally class with adjacent mainland

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634.A1  General works
634.A3-Z  By region, country, or island, A-Z
  Offshore islands generally class with adjacent mainland

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635.A1  General works
635.A3-Z  By region, country, or island, A-Z
  Offshore islands generally class with adjacent mainland

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636  General works
636.5.A-Z  By region, state, or territory, A-Z

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637  General works
637.5.A-Z  By region or statistical area, A-Z

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638.A1  General works
638.A3-Z  By region, country, or island, A-Z
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639.A1  General works
639.A3-Z  By region, country, or island, A-Z
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639.5.A1  General works
639.5.A3-Z  By region, country, or island, A-Z
  Offshore islands generally class with adjacent mainland

Stratigraphy

Prefer stratigraphic to geographical classification
For historical geology see QE28.3

640  Periodicals, societies, congresses, serial publications
645  Nomenclature, terminology, notation, abbreviations
  Class here general works as well as works on the nomenclature of particular regions, countries, etc.

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
653.5  Proterozoic

Paleozoic

654  General works
(655)  Algonkian. Huronian. Precambrian in general
  see QE653
656  Cambrian
660  Ordovician
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(662) Lower (Ordovician)
         see QE660
(663) Upper (Silurian)
         see QE661
665 Devonian
   Carboniferous
571 General works
572 Mississippian
573 Pennsylvania
   Cf. TN799.9+ Coal
573.5 Permo-Carboniferous
574 Permian
Mesozoic
575 General works
   Triassic
      General works
576 Lower
577 Middle
578 Upper
   Jurassic
      General works
579 Lower
583 Middle
584 Upper
   Cretaceous
      General works
585 Lower
587 Middle
588 Upper
589 Cretaceous-Tertiary boundary
Cenozoic
590 General works
   Tertiary
      General works
591 Paleogene
      General works
592 Eocene
592.2 Eocene-Oligocene boundary
593 Oligocene
      Neogene
593.5 General works
594 Miocene
595 Pliocene
595.5 Pliocene-Pleistocene boundary
Quaternary
596 General works
   Pleistocene. Glacial epoch
597 General works
598 Cause of the glacial epoch
599 Holocene, Recent
   Geological climate see QE698
Stratigraphy
Cenozoic -- Continued
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 Paleoaart
Including paleontological illustration
714.3 Popular works
714.5 Juvenile works
714.7 Paleontology as a profession. Vocational guidance
715 Study and teaching
Museums. Exhibitions
Class catalogs of special subjects with the subject, e.g. British Museum catalog of fossil fishes in QE851
716.A1 General works
716.A2-Z By region or country, A-Z
Subarrange each country by Table Q5
718 Collection and preservation
Class here general works on collection and preservation of fossils
For works on collection by stratigraphic division see QE724+
For works on collection by geographic division see QE743+
For works on collection and preservation of individual fossils see QE767

Micropaleontology
For fossil biomolecules see QP517.F66
719 General works
719.5 Prokaryotes. Bacteria
Paleontology
  Micropaleontology -- Continued
  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
  721.2.V3 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+
  724 Precambrian
    General works
  724.5 Proterozoic
    Paleozoic
  725 General works
  726 Cambrian
  726.2 Ordovician
  727 Silurian
  728 Devonian
  728 Carboniferous
    General works
  729.2 Mississippian
  729.3 Pennsylvanian
  730 Permian
    Mesozoic
    General works
  731 Triassic
  732 Jurassic
  734 Cretaceous
  734.5 Cretaceous-Tertiary boundary
    Cenozoic
  735 General works
    Tertiary
  736 Paleogene
  736.5 General works
  736.8 Paleocene
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    Oligocene
    Neogene
  Neogene
    General works
  739 Miocene
  740 Pliocene
  Quaternary
    General works
    741 Pleistocene
    741.2 Holocene, Recent
    742 Amber fauna and flora
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  Prefer the stratigraphic divisions above to geographical divisions
  743 General works
    743.5 Ocean bottom
    744 Arctic regions
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      United States
      745 General works
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        747.A-Z General works
      Mexico
        749.A1 General works
        By region or state, A-Z
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      Central America
        751.A1 General works
        By region, country, or island, A-Z
      Offshore islands generally class with adjacent mainland
      South America
        752.A1 General works
        By region, country, or island, A-Z
      Offshore islands generally class with adjacent mainland
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        753 General works
        Great Britain
        755.A-Z Other regions or countries, A-Z
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        756.A1 General works
        By region, country, or island, A-Z
      Africa
        757.A1 General works
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757.A3-Z
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758.A1
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758.A3-Z
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759.A-Z
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760.8
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761
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763
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765
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766
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767
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For geographical divisions see QE743+
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770
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771
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773
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774.A-Z
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774.F5
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774.P6
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774.T5
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774.T55
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775
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777
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778
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779
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780
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780.5
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781
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782
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783.A-Z
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783.B6
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783.C9
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783.D5
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783.E2
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783.E3
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783.H7
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783.O6
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783.P3 Paracrinoida
783.S8 Stelloidea
783.S89 Stylophora
791 Worms and other veriform invertebrates
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796 General works, treatises, and textbooks
797.A-Z Systematic divisions, A-Z
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797.A69 Athyrididae
797.A7 Atrypidae
797.C95 Cyrtinidae
797.D3 Delthyrididae
797.D5 Dielasmididae
797.D6 Discinidae
797.I5 Inarticulata
797.K5 Kinginidae
797.L7 Lingulidae
797.O2 Obolidae
797.O7 Orthida
797.O75 Orthidae
797.P3 Paterinidae
797.P39 Pentamerida
797.P4 Pentameridae
797.P5 Playlstrophiinae
797.P9 Productidae
797.R5 Rynchonellidae
797.S4 Septirhynchiiidae
797.S7 Spiriferidae
797.S8 Stringocephalidae
797.S89 Strophomenida
797.S9 Strophomenidae
797.T29 Terebratulida
(797.T3) Terebratulidae
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797.T5 Thecidellinidae
797.T8 Trimerellidae
797.Z4 Zeilleridae
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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
799.S74 Stenolaemata
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801 General works, treatises, and textbooks
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806  General works, treatises, and textbooks
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807.A5   Ammonoidea
807.B4   Belemnitida
807.C65  Clymeniida
807.C7   Coleoidea
807.D5   Dibranchiata
807.E4   Ecdyceras see QE807.H4
807.E5   Ellesmeroceratidae
807.G56  Goniatitidae
807.H4   Hebetoceratidae
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807.L7   Liparoceratidae
807.L98  Lytoceratidae
807.N4   Nautiloidea
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808  General works, treatises, and textbooks
809.A-Z  Systematic divisions, A-Z
809.A18  Actaeonellidae
809.A2   Actaeonidae
809.A72  Archaeogastropoda
809.B8   Buccinidae
809.C4   Ceratopeidae
809.C48  Columbellidae
809.C52  Conidae
809.C9   Cypraeidae
809.E55  Eotomariidae
809.E64  Epitoniidae
809.E9   Euomphalidae
809.F3   Fasciolariidae
809.L57  Littorinimorpha
809.M25  Macluritidae
809.M4   Mesogastropoda
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809.N3   Nassariidae
809.N32  Naticidae
809.N45  Neritidae
809.O44  Olividae
809.O6   Opisthobranchia
809.P5   Platyceratidae
809.P7   Prosobranchia
809.P8   Pteropoda
809.P9   Pulmonata
809.P95  Pyramidellidae
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<th>809.T5</th>
<th>Thaididae</th>
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<tr>
<td>809.T88</td>
<td>Turridae</td>
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<td>809.T9</td>
<td>Turritellidae</td>
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<td>809.V2</td>
<td>Valencienniidae</td>
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<td>809.V3</td>
<td>Vasidae</td>
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<td>809.V7</td>
<td>Volutidae</td>
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<tr>
<td>809.Z9</td>
<td>Zonitidae</td>
</tr>
</tbody>
</table>

Bivalvia. Lamellibranchia. Pelecypoda

811 General works, treatises, and textbooks


812.A8 Arcidae

(812.A84) Astartidae

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812.B83 Buchiidae

812.C3 Cardiidae

812.C35 Carditidae

812.C5 Chondroodontidae

812.C6 Conocardiidae

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812.G7 Grammysiidae

812.G78 Gryphaeidae

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812.H57 Hippuritidae

812.H573 Hippuritoidea (Rudists)

812.I5 Inoceramidae

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812.M48 Megalodontacea

812.M6 Monotidae

812.M9 Myaliniidae

812.M94 Mytilidae

812.N6 Noetiidae

812.N8 Nuclididae

812.O8 Ostreidae

812.O87 Ostreoida

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812.P4 Pectinidae

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812.P5 Pholadomyoida

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812.P7 Pterinidae

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812.S62 Solemyoida

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812.T34 Teleodesmacea

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812.U6
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817.C5
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817.C6
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817.C7
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817.E5
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829.D5
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832.A55
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832.B55
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832.C6
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832.C63
Collembola (Springtails)
832.D47
Dermaptera (Earwigs)
832.D6
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832.E52
Embioptera
832.E65
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832.H65
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832.H9
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832.I8
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832.L5
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852.A7   Arthrodira
852.B47  Beryciformes
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852.D7   Drepanaspidae
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852.G37  Gasterosteiformes
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852.L35  Lamniformes
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    For works on specific orders of dinosaurs see QE862.A+
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  861.3
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872.P4  Pelicaniformes
872.P5  Piciformes
872.P6  Podargidae
872.P65  Prophaethontiformes
872.P7  Psitaciformes
872.P8  Pteroclididae
872.R37  Ratites
872.R4  Rheiformes
872.S4  Sphenisciformes
872.S5  Steatornithes
872.S8  Strigiformes
872.S9  Struthioniformes
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872.T56  Tinamiformes
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882.C5  Cetacea
882.C8  Chiroptera
882.C84  Cimolestia
882.C9  Creodonta
882.D4  Deltatheridia
882.D45  Desmostylia
882.D6  Docodonta
882.E2  Edentata. Xenarthra
882.E75  Erinaceomorpha
  Cf. QE882.I5 Insectivores
882.E86  Eupantotheria
882.H47  Herbivora
882.I5  Insectivores
  Cf. QE882.E75 Erinaceomorpha
  Cf. QE882.S67 Soricomorpha
882.L3  Lagomorpha
882.M25  Macroscelidea
882.M3  General works
882.M32  Dasyuromorphia
882.M33  Didelphimorphia
882.M34  Diprotodontia
882.M35  Microbiotheria
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  882.M6 Monotremata
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  882.P3 Pantotheria
  882.P45 Pholidota
  882.P5 Pinnipedia
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  882.P8 Proboscidea
  882.R6 Rodentia
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  882.U2 General works
  882.U3 Artiodactyla
  882.U6 Perissodactyla
  882.U8 Other
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  899.2.A-Z Special groups, A-Z
  899.2.A37 Acritarchs
  899.2.C65 Conodons
  899.2.C67 Coprolites
  899.2.D32 Dacyroconarida
  899.2.T45 Tentaculitida

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  903 Nomenclature, terminology, notation, abbreviations
  History
  904.A1 General works
  904.A2-Z By region or country, A-Z
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  904.5 Collective
    Including directories
  904.52.A-Z Individual, A-Z
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904.52.S4  Seward, Sir Albert Charles, 1863-1941
905  General works, treatises, and textbooks
906  Juvenile works
907  Pictorial works and atlases
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908.A1  General works
908.A2-Z  By region or country, A-Z
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911  Addresses, essays, lectures
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914  General works
914.5  Proterozoic
Paleozoic
915  General works
916  Cambrian
916.5  Ordovician
917  Silurian
918  Devonian
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919  General works
919.3  Mississippian
919.5  Pennsylvanian
920  Permian
Mesozoic
921  General works
922  Triassic
923  Jurassic
924  Cretaceous
Cenozoic
925  General works
Tertiary
926  General works
Paleogene
926.5  General works
927  Paleocene
927.2  Eocene
928  Oligocene
Neogene
928.5  General works
929  Miocene
930  Pliocene
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931  General works
931.2  Pleistocene
931.3  Holocene, Recent
932  Amber flora
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934  Arctic regions
935  North America
935  General works
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938.A3-Z
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939.A1
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939.A3-Z
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940.A3-Z
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941.A1
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941.A3-Z
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942.A1
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942.A3-Z
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943
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944
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945.A-Z
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946.A1
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946.A3-Z
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947.A1
General works
947.A3-Z
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Offshore islands generally class with adjacent mainland
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948.A1
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948.A3-Z
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949.A-Z
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950
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960.5
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961
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965
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      Selaginellales
   Gymnosperms. Pinophyta
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976
   General works
976.2
   Cycadales
976.3
   Cycadeoidales
976.4
   Pteridospermales
   Coniferophyta
977
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977.2
   Coniferales
977.3
   Ginkgoales
977.4
   Gnetales
977.5
   Taxales
978
   Cordaitales
   Angiospermophyta. Magnoliophyta
980
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981
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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
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  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
  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
  15  General works
  21.A-Z  By region or country, A-Z
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  31.A2  Agassiz
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  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
    1736-1969
    1970-
  45  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
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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
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   Subarrange each country by Table Q5

72
   Commercial lists, catalogs, etc.

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

   Including natural areas, nature reserves, wilderness areas, biosphere reserves, ecological reserves,
   environmentally sensitive areas

   Cf. GF90+ Landscape assessment

   Cf. GV191.67.W5 Recreational aspects of wilderness areas

   Cf. QH91.8.B6 Marine biology

   Cf. SK351+ Wildlife management areas

75.A1
   Periodicals, societies, congresses, serial publications

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

   By region or country

   United States

   General works

76
   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
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77.3.T45
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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

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

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   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
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90.45
Aquatic biology as a profession. Vocational guidance
Study and teaching. Research

90.5
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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
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90.57.A77
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90.57.B5
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90.57.D7
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Cf. QH96.6+ Freshwater laboratories

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90.65.A-Z
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90.7.A1
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90.7.A2-Z
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90.75.A1
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90.75.A3-Z
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90.8.A-Z
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90.8.B56
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For aquatic biodiversity of a particular region see QH101+
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90.8.I57
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90.8.N44
Nekton

90.8.P5
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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
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91.A5-Z
General works, treatises, and textbooks

91.1
Addresses, essays, lectures

91.15
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91.16
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91.17
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91.2
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Water. Aquatic biology
Marine biology -- Continued

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91.3.A2
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91.3.A3-Z
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Marine biology as a profession. Vocational guidance
Study and teaching. Research

91.5
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91.57.A3-Z
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91.57.A4
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91.57.B5
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91.57.C68
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91.57.D7
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91.57.E4
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91.57.G46
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91.57.M38
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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
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91.65.A-Z
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Museums. Exhibitions
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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
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Cf. QH109.C93 Curaçao

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178.D36 Danube River Valley
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178.J85 Jura Mountains
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178.P97 Pyrenees
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178.R57 Riga, Gulf of (Latvia and Estonia)
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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
Samoaan Islands
198.S5
Snares Islands (N.Z.)
198.S6
Solomon Islands
198.S67
Spratly Islands
198.T35
Tahiti
198.T66
Tonga
198.T88
Tuvalu
198.V35
Vanuatu
Geographical distribution. Biogeography. Phylogeography

Topographical divisions
Australasia
  Pacific Area. Pacific islands
    By island or group of islands, A-Z -- Continued
    Western Samoa. Samoa

198.W5
(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
212.S35
  Scanning tunneling microscopes
212.T7
  Transmission electron microscopes
212.U48
  Ultraviolet microscopes
Microscopy
   Microscopes
      Special microscopes, A-Z -- Continued
   X-ray microscopes
212.X2
   Accessories and their use
213
   Illuminating apparatus
215
   Polarizing apparatus
      Cf. QH212.P6 Polarizing microscopes
217
   Catalogs of apparatus and supplies
219
   Chemical microscopy
      Cf. QD98.M5 Microchemical analysis
221
   Video microscopy
222
   Confocal microscopy
      Including confocal fluorescence microscopy
224
   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)

- **301** Periodicals, societies, congresses, serial publications
- **302** Collected works (nonserial)
- **302.5** Dictionaries and encyclopedias
- **Cf. N72.B5 Biology and art**
- **Cf. N72.B56**

**Communication in biology**

- **303** General works, treatises, and textbooks
  - **303.15** Directories
  - **303.2** General works, treatises, and textbooks
  - **303.4.A-Z** By region or country, A-Z
    - Subarrange each country by Table Q5
  - **303.5** Computer network resources
    - Including the Internet
  - **303.6** Biological literature. Life sciences literature
  - **304** Authorship
    - Including practical manuals and stylebooks
    - **Cf. PE1475 Preparation of scientific papers in English**
  - **304.5** Terminology, notation, abbreviations
    - For nomenclature see QH83

**History and conditions**

- **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
- **307** General works and treatises
  - **307.2** 1970-
  - **307.2** Textbooks
    - Advanced
    - Through 1969
    - 1970-
    - **308** Elementary
    - Through 1969
    - 1970-308.7
- **309** Popular works
- **309.2** Juvenile works
- **310** Handbooks, tables, formulas, etc.
- **311** Addresses, essays, lectures
- **313** Special aspects of the subject as a whole
- **313.5.A-Z** Special topics, A-Z
- **313.5.F67** Forensic biology
- **314** Biology as a profession. Vocational guidance
- **Study and teaching. Research**
  - **315** General works
  - **315.25** Teacher training
  - **315.3** Audiovisual aids
  - **315.5** Outlines, syllabi
  - **316** Problems, exercises, examinations
  - **316.4** Activity programs
  - **316.5** Experiments
  - **317** Laboratory manuals
Study and teaching. Research -- Continued

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
323.A-Z Other regions or countries, A-Z
   Subarrange each country by Table Q6
323.2 Safety measures
323.5 Biometry. Biomathematics. Mathematical models
   Cf. QH507 Information theory in biology

Methods of research. Technique. Experimental biology
   Cf. QH585+ Cytology

324 General works
324.15 Biological resource centers
   Cf. QH442.4 Gene libraries
   Data processing. Bioinformatics
324.2 General works
324.25 Artificial intelligence
324.27 Data mining
   Tracers
324.3 General works
324.35.A-Z Special elements. By chemical symbol, A-Z (Table Q1)
324.4 Germfree life
   Instruments and apparatus (General)
324.42 General works
324.5 Catalogs of apparatus and supplies
324.8 Biological models
324.9.A-Z Other special, A-Z
324.9.A88 Autoclaving
324.9.A9 Autoradiography
324.9.B48 Biophotometry
324.9.B49 Biophysical labeling
324.9.B5 Biotelemetry
324.9.C3 Calorimetry
324.9.C4 Centrifugation
   Centrifugation, Density gradient see QH324.9.D46
324.9.C7 Cryobiology. Freeze-drying
324.9.D46 Density gradient centrifugation
324.9.E36 Electron paramagnetic resonance
324.9.E38 Electron probe microanalysis
324.9.E4 Electrophoresis
Methods of research. Technique
Other special, A-Z -- Continued

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
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
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

Comparison of plants and animals
Miscellany and curiosa
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

General works
Population viability analysis
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
Periodicals, societies, congresses, serial publications
Collected works (nonserial)
Dictionaries and encyclopedias
Philosophy
Nomenclature, terminology, notation, abbreviations
History
Study and teaching. Research
Early works through 1860
Works of Darwin
Collected works. By date
Separate works, A-Z
The descent of man
Editions. By date
Selections. By editor
Translations
Arrange alphabetically by language, then Cutter for translator
Criticism and reviews
The expression of the emotions in man and animals
Editions. By date
Selections. By editor
Translations
Arrange alphabetically by language, then Cutter for translator
Criticism and reviews
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
Editions. By date
Selections. By editor
Translations
Arrange alphabetically by language, then Cutter for translator, for example:
German
Hungarian
Evolution
Works of Darwin
Separate works, A-Z
On the origin of species
Translations -- Continued
365.O68
Romanian
365.O7
Russian
365.O73
Spanish
365.O8
Cuban
365.O8
Croatian
365.O8
Criticism and reviews
The variation of animals and plants under domestication
365.V2
Editions. By date
365.V25
Selections. By editor
365.V3-.V79
Translations
Arrange alphabetically by language, then Cutter for translator
365.V8
Criticism and reviews
365.Z9
Selections from more than one work. By editor
General works, treatises, and textbooks
366
1861-1969
366.2
1970-
367
Popular works
367.1
Juvenile works
367.3
Critical works
Class here works that argue against the theory of evolution
Cf. BL263 Religion and science
367.5
Phylogenetic relationships
For the evolution of particular animals and groups of animals, see systematic sections, e.g.
QL618.2 Evolution of fishes; QL708.5 Evolution of mammals
(368)
Human evolution
see GN281+
(368.5)
Plant evolution (General)
see QK980
369
Miscellany and curiosa
(371)
Special aspects of the subject as a whole
see QH371.3.A+
371.3.A-Z
Special aspects of the subject as a whole, A-Z
371.3.M37
Mathematical models
371.5
Macroevolution
372
Coevolution
372.5
Homoplasy
373
Convergence
375
Natural selection
376
Group selection
378
Symbiogenesis
380
Speciation
390
Mutation in evolution. Evolutionary genetics
395
Heterochrony
398
Punctuated equilibrium
Variation
401
General works
(405)
Statistical methods
see QH323.5
(406)
Plants
see QK983
408
Animals
408.5
Phenetics
409
Clines
Evolution
Variation -- Continued
411 Experimental study
Hybridization. Hybrid zones
421 General works
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
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
Sex linkage
Mosaicism

Genes. Alleles. Genome
Cf. QP98 Blood groups

General works
Dominance and recessiveness
Conversion
Polymorphisms

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
Genetics
  Recombination mechanisms -- Continued
    Recombination in microorganisms
      General works
      448
      Conjugation
      448.2
      Transduction
      448.3
      Transformation
      448.4
    Genetic regulation. Gene expression
      General works
      450
      Genetic code. Transcription
      450.2
      RNA editing
      450.25
      RNA interference
      450.26
      Gene amplification
      450.3
      Overexpression
      450.4
      Translation. Assembly
      450.5
      Post-translational modification of proteins
      450.6
      Epistasis
      450.7
    Cell fusion. Cell hybridization
      451
    Cytoplasmic inheritance
      452
    Microsatellites
      Mobile genetic elements
      Cf. QH462.I48 Insertion elements, DNA
      General works
      452.3
      Episomes
      452.5
      Plasmids
      Cf. QR76.6 Bacterial plasmids
      Quantitative genetics
      452.7
    In situ hybridization
      452.8
    Developmental genetics
      453
    Population genetics
      Cf. GN289+ Physical anthropology
      Cf. HB848+ Population (Economic theory)
      455
    Ecological genetics
      Endocrine genetics see QP187.5
      Evolutionary genetics see QH390
      Immunogenetics see QR184+
      456
    Behavior genetics
      Cf. BF341+ Heredity of consciousness
      Cf. BF699+ Genetic psychology
      457
    Sociogenomics
    Mutations
      Cf. QH390 Mutation in evolution
      460
    General works
      461
    Genetic mutation. Polyploidy. Aneuploidy
      Chromosomal mutation
      General works, treatises, and textbooks
      462.A1
      By type, A-Z
      462.A2-Z
      Breakage
      462.B7
      Deletion
      462.D4
      Duplication
      462.D8
      Gene fusion
      462.G46
      Insertion elements, DNA
      462.I48
      Inversion
      462.I5
      Nondisjunction
      462.N65
      Translocation
      462.T7
    Gene mutation
Genetics
Mutations
Gene mutation -- Continued
463.13.A-Z By type, A-Z
463.13.157 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 Corrinus
470.C64 Corn
470.D7 Drosophila
470.E8 Escherichia
Maize see QH470.C64
470.M52 Mice
470.N4 Neurospora
470.O35 Oenothera
470.S23 Saccharomyces cerevisiae
470.T6 Tobacco mosaic virus
470.T68 Tradescantia
470.T7 Trillium
Reproduction
Cf. QK825+ Plants
Cf. QP251+ Animals
471 General works, treatises, and textbooks
Asexual
Cf. QH442.2 Cloning (Genetic engineering)
475 General works, treatises, and textbooks
477 Fission
479 Budding
Sexual
481 General works, treatises, and textbooks
485 Fertilization
487 Parthenogenesis
489 Alternation of generations
Development. Morphogenesis
   Including tissue remodeling
   Cf. QK665 Plant embryology
   Cf. QL951+ Animal embryology

491
General works

492
Evolutionary developmental biology

499
Regeneration
   Cf. QK840 Plant physiology
   Cf. QP90.2 Animal physiology

Life
   Cf. QK710+ Plants
   Cf. QP1+ Animals

501
General works, treatises, and textbooks
   Biochemistry see QH345

504
Biomagnetism
   Cf. QP82.2.M3 Physiological effects of magnetic fields
   Cf. QP345 Human magnetic fields

505
Biophysics

506
Molecular biology
   Cf. QP187.3.M64 Molecular endocrinology

507
Homeostasis see QP90.4

508
Information theory in biology

509
Biological control systems

509.5
Biological transport
   Cf. QH615 Osmosis

510
Biochemistry

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 Photobiology

516
Thermobiology

517
Electrophysiology
   Cf. QP341 Animals
   Cf. QP517.B53 Bioelectrochemistry

518
Respiration

518.5
Anaerobiosis

519
Nutrition

521
Metabolism

523
Dormancy

524
Cryptobiosis. Anhydrobiosis

527
Chronobiology. Periodicity. Biorhythms
   Cf. QP84.6 Physiology

528
Degeneration

528.5
Longevity
   Cf. QP85 Animals

529
Senescence. Aging
Life -- Continued

Death
  Cf. QH671 Cell death
  Cf. QP87 Animal death

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

Miscellany and curiosa

Ecology
  Class here works on general ecology and general animal ecology. For works on ecology of
  individual animals and groups of animals, see the animal
  For human ecology see GF1+
  For ecology of a particular topographic area see QH101+
  For plant ecology see QK900+
  Cf. BL65.E36 Ecology and religion
  Cf. HX550.E25 Communism and ecology
  Cf. QH546 Ecological genetics

Periodicals, societies, congresses, serial publications
Collected works (nonserial)
Dictionaries and encyclopedias
Philosophy
Nomenclature, terminology, notation, abbreviations
Classification
History

General works
By region or country, A-Z
Biography see QH26+

General works, treatises, and textbooks
Popular works
Juvenile works
Handbooks, tables, formulas, etc.
Addresses, essays, lectures
Special aspects of the subject as a whole, A-Z
Autoradiographic techniques
Biodiversity see QH541.15.B56
Biological assay
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

Buffer zones
Chemical ecology
Closed ecological systems
Corridors
Documentation
Ecohydrology
Ecological assessment (Biology)
Ecological heterogeneity
Ecological integrity
Ecological zones
Economic ecology
Ecophysiology
  Cf. QP82+ Animal ecophysiology
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

Study and teaching. Research

541.2 General works
541.215 Outlines, syllabi
   Special teaching methods and aids
541.22 General works
541.23 Audiovisual aids
541.235.A-Z Other methods, A-Z
541.235.G34 Games
541.24 Experiments
541.25 Laboratory manuals
   By region or country
Ecology
Study and teaching. Research
By region or country -- Continued
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
  Intertidal zones see QH541.5.S35
541.5.I8 Islands
541.5.J8 Jungle
541.5.K4 Kelp beds
541.5.L27 Lagoons
541.5.L3 Lakes
  Cf. QH541.5.S22 Salt lakes
541.5.L53 Llanos
541.5.M27 Mangrove swamps
  Marine ecology see QH541.5.S3
541.5.M3 Marshes. Wetlands
541.5.M4 Meadows
541.5.M44 Mediterranean-type
  Cf. QH150 Mediterranean Region
541.5.M6 Moors
541.5.M65 Mountains
541.5.O24 Ocean bottom. Seabed
541.5.O25 Ocean currents
  Oceans see QH541.5.S3
541.5.P47 Permafrost forests
541.5.P6 Polar regions
541.5.P63 Ponds
  Cf. QH541.5.S18 Sagebrush steppes
541.5.R27 Rain forests
541.5.R3 Rangelands
  Reefs see QH541.5.C7
541.5.R4 Reservoirs
541.5.R52 Riparian areas
  Rivers see QH541.5.S7
541.5.R62 Roads. Roadsides
541.5.S18 Sagebrush steppes
541.5.S22 Salt lakes
541.5.S24 Salt marshes. Tide marshes
541.5.S26 Sand dunes
  Savannas see QH541.5.P7
541.5.S3 Sea. Marine ecology. Ocean ecology
  Cf. QH541.5.D35 Deep-sea zone
  Seabed see QH541.5.O24
541.5.S35 Seashore. Tidal pools
  Including intertidal zones
541.5.S55 Shrublands
541.5.S57 Snow ecology
541.5.S6 Soil
541.5.S65 Springs
  Cf. QH541.5.H65 Hot springs
  Steppes see QH541.5.P7
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
   Tidal pools see QH541.5.S35
   Tide marshes see QH541.5.S24

541.5.T66 Tropical dry forests

541.5.T7 Tropics

541.5.T8 Tundras

541.5.U55 Underground ecology

541.5.U64 Uplands
   Cf. QH541.5.M65 Mountains
   Urban ecology see QH541.5.C6

541.5.V27 Vacant lots

541.5.V3 Valleys. Floodplains
   Cf. QH541.5.C73 Coulees

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

541.5.X45 Xeric ecology

(542) 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
      General works

543.6 Marine radioecology

543.8 Brackish water radioecology. Estuarine radioecology

543.9 Freshwater radioecology

543.95 Ultraviolet radiation

544 Phenology
Ecology -- Continued

Influence of special factors in the environment

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

Cf. GF51 Human ecology
Cf. QH343.7+ Biogeochemistry
Cf. QK746+ Plants
Cf. QP82+ Animals
Cf. RA565+ Environmental health

545.A1
General works, treatises, and textbooks

545.A15-Z
Special, A-Z

Acid precipitation see QH545.A17

545.A17
Acid rain. Acid precipitation. Acid deposition

545.A2
Acids

545.A23
Actinide elements

545.A25
Agricultural chemicals

545.A3
Air pollution

545.A4
Aldrin

545.A42
All terrain bicycles. Mountain bikes

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

545.C3
Brines, Oil field see QH545.O47

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

545.C6
Control of weeds see QH545.W43

545.C64
Coral fisheries

545.C78
Cruise ships

545.D35
Dams. Reservoirs

545.D4
Deicing chemicals

545.D486
Desalination plants see QH545.S33

545.D486
Diazinon

545.D5
Dichloromethane

545.D55
Dioxins

545.D57
Diquat

545.D7
Dredging

545.D713
Dredging (Fisheries)
Ecology
Influence of special factors in the environment
Special, A-Z -- Continued
545.D72  Dredging spoil
545.D74  Drilling muds
545.D75  Drilling platforms
545.E35  El Niño Current
545.E38  Electric power plants
545.E4   Electromagnetic waves
545.E42  ELF electromagnetic fields
Energy development see QH545.E53
545.E53  Energy industries. Energy development
Erosion, Soil see QH545.S64
545.E98  Exterior lighting
545.F47  Fertilizers
545.F5   Fire. Fire ecology
545.F52  Fish culture
545.F53  Fisheries
545.F55  Flood control
Flood dams see QH545.D35
545.F67  Forest management
545.G37  Geothermal power plants
545.G55  Glyphosate
Growth, Urban see QH545.C54
545.H34  Hang gliding
545.H42  Heavy metals
545.H47  Herbicides
545.H49  Hexazinone
545.H54  Hiking
545.H92  Hydrocarbons
Hydroelectric power plants
545.H93  Insecticides see QH545.P4
545.L35  Lakeshore development
Land reclamation see QH545.R38
545.L4   Lead
545.L63  Logging
545.M3   Manganese
545.M34  Mariculture
Marine pollution see QH545.W3
545.M4   Mercury
545.M45  Metals
Metals, Heavy see QH545.H42
545.M52  Mineral industries
545.M6   Molybdenum
Mountain bikes see QH545.A42
Muds, Drilling see QH545.D74
545.M86  Munitions
Cf. QH545.C48 Chemical weapons
545.N3   Natural disasters
545.N47  Nickel
545.N5   Nitrogen
545.N65  Noise
545.N8   Nuclear power plants. Nuclear reactors
545.N83  Nuclear warfare
Ecology
Influence of special factors in the environment
Special, A-Z -- Continued

545.O32
Ocean acidification
545.O33
Ocean outfalls
545.O38
Offshore oil industry
  Cf. QH545.D75 Drilling platforms
545.O47
Oil field brines
545.O5
Oil pollution
  Cf. QH91.8.O4 Marine biology
545.O54
Oil sands extraction plants
545.O56
Oil shales
545.O57
Oil well drilling
545.O72
Organochlorine compounds
545.O74
Organometallic compounds
545.O76
Organophosphorus compounds
545.O87
Outdoor recreation
545.O94
Ozone
545.P37
Pentachlorophenol
545.P39
Persistent pollutants
545.P4
Pesticides
  Including insecticides
545.P5
Phosphorus
  Pipelines, Gas see QH545.G37
  Pollution (General) see QH545.A1
  Pollution, Air see QH545.A3
  Pollution, Marine see QH545.W3
  Pollution, Oil see QH545.O5
  Pollution, Thermal see QH545.T48
  Pollution, Water see QH545.W3
545.P6
Polychlorinated biphenyls
  Polycyclic aromatic hydrocarbons see QH545.H92
  Power plants, Coal-fired see QH545.C57
  Power plants, Electric see QH545.E38
  Power plants, Geothermal see QH545.G46
  Power plants, Hydroelectric see QH545.H93
545.P73
Predator control
545.R38
Reclamation of land
545.R42
Recreation areas
545.R44
Reforestation
  Reservoirs see QH545.D35
545.R58
River regulation
545.R62
Roads
545.S33
Saline water conversion plants. Desalination plants
545.S35
Saltwater encroachment
545.S37
Sand and gravel industry
545.S4
Scuba diving
545.S43
Seawater fertilization. Ocean fertilization
  Sediments, Contaminated see QH545.C59
545.S45
Selenium
545.S49
Sewage
545.S493
Sewage sludge
545.S498
Shore protection
Ecology
  Influence of special factors in the environment
  Special, A-Z -- Continued
545.S5  Shotgun pellets
545.S55  Silver
545.S56  Skiing
  Including snow grooming
Sludge, Sewage see QH545.S493
Snow grooming see QH545.S56
545.S6  Snowmobiles
545.S63  Soil amendments
  Including biochar
545.S64  Soil erosion
Sprawl, Urban see QH545.C545
545.S8  Stream channelization
545.S84  Strip mining
545.S9  Sulfur
545.S92  Sulfur compounds
545.T37  Technetium
545.T4  Temperature
545.T44  Tetrachlorodibenzodioxin
545.T45  Textile industry
545.T48  Thermal pollution
545.T55  Tin compounds
545.T7  Trace elements
545.T74  Transuranium elements
545.T743  Trawls and trawling
545.T75  Triclopyr
545.T76  Tritium
545.T87  Turbidity
545.U7  Uranium mining
Urban growth see QH545.C545
Urban sprawl see QH545.C545
545.V3  Vanadium
Vehicles, All terrain see QH545.A43
545.W26  War
  Cf. QH545.N83 Nuclear warfare
545.W28  Waste disposal
545.W3  Water pollution
  Including marine pollution
  Cf. QH90.8.T68 Aquatic toxicology
545.W33  Water resources development
Waterpower electric plants see QH545.H93
545.W43  Weed control
545.X44  Xenobiotics
545.Z56  Zinc
546  Adaptation
  Including protective mechanisms, mimicry
  Cf. QK912+ Plant adaptation
  Cf. QH543.2 Acclimatization
546.3  Competition. Niche
547  Parasitism
548  Symbiosis
548.3  General works
549  Mutualism
549  Colonies
Ecology -- Continued

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
585.2  Cell culture
585.3  General works
585.4  Serum-free culture media
585.45  Cell lines
585.457  Continuous cell lines
585.5.A-Z  Lymphoblastoid cell lines
585.5.C43  Special techniques, A-Z
585.5.C44  Cell fractionation
585.5.C64  Cell separation
585.5.C98  Colony-forming units assay
585.5.C984  Cytofluorometry
585.5.D38  Cytophotometry
585.5.E43  Data processing
585.5.E46  Immobilization of cells
585.5.E48  Lasers
585.5.F56  Micropipette techniques
Cytology

Technique

Special techniques, A-Z -- Continued

585.5.M53  Microspectrophotometry
585.5.N82  Nuclear magnetic resonance spectroscopy
(585.5.S45)  Serum-free culture

see QH585.3

585.5.S83  Subcellular fractionation

Cell populations

587  General works
588.A-Z  Individual types of cells, A-Z
588.A38  Adult stem cells
      Embryonic stem cells see QH588.S83
588.S83  Stem cells
      Including embryonic stem cells
      Stem cells, Adult see QH588.A38

591  Protoplasm. Cytoplasm
595  Nucleus
596  Nucleolus
597  Centrosome. Centriole
599  Chromatin

Chromosomes
      Cf. QH462.A1+ Chromosomal mutation

600  General works
600.15  Artificial chromosomes
600.2  Centromere
600.3  Telomere
600.5  Sex chromosomes
600.6  Giant chromosomes. Lampbrush chromosomes

Cell membranes

601  General works
601.15  Electric properties
601.2  Nuclear membranes
602  Lipid membranes. Bilayer lipid membranes. Liposomes

603.A-Z  Other special, A-Z
603.C4  Cell junctions
603.C43  Cell receptors
603.C63  Coated vesicles
603.C95  Cytosplasmic filaments
603.C96  Cytoskeleton
603.E6  Endoplasmic reticulum
603.E63  Endosomes
603.E93  Extracellular space
603.G55  Glycocalyces
603.G6  Golgi apparatus
603.I49  Inclusion bodies
603.I54  Ion channels
603.L9  Lysosomes
603.M35  Microbodies
603.M4  Microsomes
603.M44  Microtubules
603.M5  Mitochondria
603.N83  Nuclear matrix
603.P47  Peroxisomes
603.R5  Ribosomes
603.S27  Sarcoplasmic reticulum
Cytology -- Continued
Control mechanisms. Cell regulation
  Cf. QP187.3.C44 Endocrinology
604  General works
604.2  Cell interaction
  Cf. QP517.C45 Cellular signal transduction
604.3  Cell compartmentation
604.5  Ion exchange
604.7  Cell growth. Cell proliferation
  Cell division
605  General works
605.2  Mitosis
605.3  Meiosis
  Cell differentiation
607  General works
  Cf. QL963.5 Embryology
607.2.A-Z  By type of cell, A-Z
607.2.C47  Chromatophores. Pigment cells
  Pigment cells see QH607.2.C47
608  Aging of cells
  Cf. QH671 Pathology and death
609  Cellular repair mechanisms
  Physical and chemical properties
  Cf. QH506 Molecular biology
611  General works
613  Histochemistry
615  Osmosis
621  Turgescence
622  Adsorption
623  Adhesion
  Physiological properties
631  General works
633  Respiration
634  Ingestion. Pinocytosis, etc.
634.2  Exocytosis
634.5  Metabolism
635  Heat production. Energy
641  Light production. Bioluminescence
  Cf. QP517.C54 Chemiluminescence
642  Optical properties
643  Radiation properties
645  Electric properties
645.5  Mechanical properties
646  Contraction
647  Motility. Irritability
  Effect of physical and chemical agents on cells
  Cf. QK746+ Plant physiology
  Cf. QP82+ Animal physiology
650  General works
651  Light
  Cf. QH515 Photobiology
  Radiation
  For the effect of radiation on specific organs, organisms, etc., see the specific organ, etc., e.g.
  QP356.5, Nervous system
  Cf. QP82.2.R3 Radiation (Physiology)
652.A1  Periodicals, societies, congresses, serial publications
Cytology
  Effect of physical and chemical agents on cells
    Radiation -- Continued
  652.A2 Collected works (nonserial)
  652.A3-Z General works, treatises, and textbooks
  652.4 Ultraviolet radiation
    (652.5) Radiogenetics
      see QH465.R3
  652.7 Acoustic radiation
  653 Temperature
  655 Electricity
  656 Magnetic fields
  657 Gravity
  658 Pressure
  659 Chemicals
  671 Pathology and death
    Cf. QH608 Aging of cells
Economic biology
  Cf. S494.5.E25 Agriculture
  Cf. SB107+ Economic botany
  Cf. SF84+ Economic zoology
  705 General works
  705.5.A-Z By region or country, A-Z
Botany

1  Periodicals, societies, congresses, serial publications
3  Collected works (nonserial)
5  Voyages and expeditions
7  Encyclopedias
9  Dictionaries
Communication of information

9.2  General works
9.3  Information services
9.4  Computer network resources
     Including the Internet

10  Terminology, notation, abbreviations
    Cf. QK96 Nomenclature

11  Indexes of plants
13  Popular names
14.5  Botanical literature
     Including works on herbals

History

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

Biography

26  Collective
     e. g.
31.G8  Gray
31.T7  Torrey

35  Directories
General works and treatises
    Cf. QK91 Works of Linnaeus (Botany only)

41  Early through 1753
45  1754-1969
45.2  1970-
46  Special aspects of the subject as a whole
46.5.A-Z  Special topics, A-Z
46.5.A47  Aerial photography
46.5.B66  Botanizers
46.5.D58  Botany for gardeners see QK50
        Diversity, Plant (General)
     Including centers of plant diversity
     For plant diversity conservation see QK86+
     For local see QK102+
46.5.E4  Electronic data processing
46.5.F67  Forensic botany
46.5.H85  Human-plant relationships
46.5.M3  Mathematical models
46.5.S7  Statistical methods
46.5.V44  Vegetation monitoring
     For local see QK108+

47  Textbooks
48  Handbooks, tables, formulas, etc.
49  Juvenile works
50  Popular works
     For plants of individual regions or countries see QK108+
50.5  Botany as a profession. Vocational guidance
      Study and teaching. Research
51  General works
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
History
98.15  General works
98.16.A-Z  By region or country, A-Z
Biography
98.18  Collective
98.183.A-Z  Individual, A-Z
   Including collections of their illustrations
98.2  General works
98.24  Technique
98.3  Catalogs
98.4  Useful plants. Permaculture plants
98.4.A1  General works, treatises, and textbooks
98.4.A5-Z  By region or country, A-Z
Economic botany see SB107+
Edible plants
   Including edible wild plants
   Cf. SB175+ Food crops
98.5.A1  General works, treatises, and textbooks
98.5.A5-Z  By region or country, A-Z
Dye plants (General)
   Cf. SB285+ Culture
98.7.A1  General works, treatises, and textbooks
98.7.A5-Z  By region or country, A-Z
Medical botany (General)
  Cf. RS164 Drugs of the vegetable kingdom
  Cf. SB293 Culture
99.A1  General works, treatises, and textbooks
99.A5-Z By region or country, A-Z
Poisonous plants
  Cf. SB617+ Poisonous plants as pests
100.A1  General works, treatises, and textbooks
100.A5-Z By region or country, A-Z
Geographical distribution. Phytogeography
101  General works, treatises, and textbooks
Aquatic flora (General)
  For geographic treatment see QK108+
  Cf. QK564+ Algae
102  General works
103  Marine flora (General)
105  Freshwater flora (General)
Topographical divisions
108  Special parts of the world
    Including British Empire
America
109  General works
    North America
110  General works
    Illustrations of North American flora
    United States
      Including East (U.S.)
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121.5  Saint John River and Valley (Me. and N.B.)
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231.S3
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231.S33
Saint Kitts and Nevis

231.S34
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231.S35
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231.S38
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316 Italy
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319 Luxembourg
320 Netherlands (Holland)
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Cf. QK375+ Russia (Federation) in Asia

321.5 Belarus
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325 Denmark
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339.A54
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339.B34
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339.B47
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339.C35
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339.C45
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339.C5
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339.C65
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339.C8
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339.E37
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339.E8
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339.J85
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339.K67
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339.L3
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339.L46
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339.L5
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339.M67
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339.N67
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379.5.A-Z

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379.5.M36

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379.5.M53

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Cf. QK401 East Africa

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392.4

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Cf. QK400 Former British Central Africa

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402.G3

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402.N34

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402.N5

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402.R5

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Burkina Faso

Cameroon see QK412

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Djibouti

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Guinea

Ivory Coast. Côte d'Ivoire

Mauritania

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Cameroon

Namibia. Southwest Africa

Eritrea

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Zaire. Congo (Democratic Republic)

Congo (Brazzaville)

Liberia

Morocco

Mozambique

Angola

Sao Tome and Principe

Guinea-Bissau

Canary Islands

Western Sahara

Equatorial Guinea

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473.N4
New Caledonia
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473.N57
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473.N67
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473.P3
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473.P5
Pitcairn Islands

473.P75
Polynesia

473.P78
Ponape Island

473.R27
Raiatea

473.R3
Rarotonga

473.S3
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473.S6
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473.T3
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473.T6
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473.T88
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473.V25
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473.W33
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474.2
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474.3
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474.4
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Tropics

Cf. QK391 Tropical Africa
Cf. QK936 Tropical plant ecology

Spermatophyta. Phanerogams

For general works, see general botany

Trees and shrubs

Cf. SD434+ Timber trees

474.8
Periodicals. Societies. Serials

474.83
Collected works (nonserial)

474.85
Congresses

474.87
Dictionaries and encyclopedias

475
General works, treatises, and textbooks

475.6
Pictorial works. Atlases

475.8
Juvenile works

476
Study and teaching. Research

477
Special aspects of the subject as a whole

For historic trees, see D

For folklore of trees see GR785

For national and state trees see QK84.8+

For remarkable trees see SD383+

477.2.A-Z
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477.2.A6
Annual rings

Cf. CC78.3 Archaeology
Cf. QC884.2.D4 Dendroclimatology

Flowering see QK830
Spermatophyta. Phanerogams

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

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.x2A-.x2Z Local or individual. By name, A-Z

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494.5.A7 Araucariaceae

494.5.C4 Cephalotaxaceae

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494.5.C975 Cupressaceae

494.5.C995 Cycadaceae

494.5.E5 Ephedraceae

494.5.G48 Ginkgoaceae

494.5.G565 Gnetaceae

494.5.P58 Phylocladaceae

494.5.P66 Pinaceae

494.5.P73 Podocarpaceae

494.5.S35 Sciadopityaceae (Japanese umbrella pine)

494.5.S8 Stangeriaceae

494.5.T25 Taxaceae

494.5.T3 Taxodiaceae

494.5.W4 Welwitschiaceae

494.5.Z35 Zamiaceae

Angiosperms

495.A1 General works, treatises, and textbooks

For geographical treatment see QK108+

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

495.A12 Dicotyledons

Including orders and higher (not A-Z)

495.A14 Monocotyledons

Including orders and higher (not A-Z)

495.A15-Z By family, A-Z

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495.A1655 Acanthaceae

495.A17 Aceraceae (Maple)

495.A175 Achariaceae

495.A176 Achatocarpaceae

495.A177 Actinidiaceae

495.A178 Adoxaceae (Moschatel)
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495.A185
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495.A24
Agapanthaceae

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Agavaceae

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495.A32
Aizoaceae (Ice plant)

495.A34
Akanthaceae

495.A36
Alangiaceae

495.A4
Alismataceae (Water plantain)

495.A42
Alliaceae (Onion; garlic; leek)

Aloaceae see QK495.A42

495.A48
Amaranthaceae (Amaranth)

495.A484
Amaryllidaceae (Amaryllis)

495.A485
Amborellaceae

495.A498
Anacardiaceae (Cashew)

495.A499
Ancistrocladaceae

495.A55
Anisophylleaceae

495.A6
Annonaceae (Pawpaw)

(495.A65)
Aphylanthaceae

see QK495.A83

Apiaceae see QK495.U48

495.A66
Apocynaceae (Dogbane)

495.A667
Aponogetonaceae

495.A67
Aquifoliaceae (Holly)

495.A685
Araceae (Arum)

495.A6853
Araliaceae (Ginseng)

Arecaceae see QK495.P17

495.A688
Aristolochiaceae (Dutchman's pipe)

495.A815
Asclepiadaceae (Milkweed)

495.A83

495.A835
Asphodelaceae

Asteraceae see QK495.C74

495.A9
Austrobaileyaceae

495.B2
Balanopaceae

495.B23
Balanophoraceae

495.B25
Balsaminaceae (Touch-me-not)

495.B256
Basellaceae (Madeira vine)

495.B33
Bataceae

495.B4
Begoniaceae (Begonia)

495.B45
Berberidaceae (Barberry)

495.B56
Betulaceae (Birch)

495.B62
Bignoniaceae (Catalpa)

495.B63
Bixaceae

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Bombacaceae

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495.B73
Boraginaceae (Borage)

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495.B75
Bretschneideraceae

495.B76
Bromeliaceae (Bromelia)

495.B78
Bruneliaceae

495.B785
Bruniaceae

495.B786
Brunoniaceae (Blue-pincushion)

495.B7865
Buddlejaceae
Spermatophyta. Phanerogams
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495.B79
Burmanniaceae

495.B8
Burseraceae (Incense tree)

495.B83
Butomaceae (Flowering rush)

495.B85
Buxaceae (Box)

495.B9
Byblidaceae

495.C11
Cactaceae (Cactus)

495.C1153
Caesalpiniaceae

495.C1155
Callitrichaceae (Water starwort)

495.C15
Calycanthaceae (Spicebush)

495.C17
Calyceraceae

495.C18
Campanulaceae (Bellflower)

495.C182
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495.C194
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495.C198
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495.C199
Capparidaceae (Spiderflower)

495.C1995
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495.C1997
Caricaceae (Papaya)

495.C2
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495.C24
Caryophyllaceae (Pink)

495.C27
Casuarinaceae (Beefwood)

495.C385
Celastraceae (Staff tree)

495.C39
Centrolepidaceae

495.C395
Cephalotaceae

495.C4
Ceratophyllaceae (Hornwort)

495.C43
Cercidiphyllaceae

495.C46
Chenopodiaceae (Goosefoot)

495.C47
Chloranthaceae

495.C48
Chrysobalanaceae

495.C5
Cistaceae (Rockrose)

495.C55
Clethraceae

495.C555
Clusiaceae see QK495.G87

495.C6
Cneoraceae

495.C65
Cochlospermaceae

495.C7
Combretaceae (White mangrove)

495.C73
Commelinaceae (Spiderwort)

495.C74
Compositae (Sunflower)

495.C76
Connaraceae

495.C78
Convolvulaceae (Morning-glory)

495.C783
Coriariaceae

495.C785
Corneaceae (Dogwood)

495.C786
Corsiaceae

495.C787
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495.C79
Crassulaceae (Stonecrop)

495.C797
Crossosomataceae

495.C9
Cruciferae (Mustard)

495.C93
Crypteroniaceae

495.C96
Cucurbitaceae (Gourd)

495.C965
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495.C967 Cuscutaceae (Dodder)
495.C97 Cyanastraceae
495.C975 Cyclanthaceae (Panama-hat palm)
495.C979 Cymodoceaceae
495.C98 Cynomoriaceae
495.C997 Cyperaceae (Sedge)
495.C9973 Cyriaceae (Leatherwood)
495.D325 Daphniphyllaceae
495.D33 Datiscaceae (Durango root)
495.D34 Davidiaceae
495.D35 Davidsoniaceae
495.D4 Degeneriaceae
495.D42 Desfontainiaceae
495.D43 Dialypetalanthaceae
495.D435 Diapensiaceae
495.D44 Dichapetalaceae
495.D45 Didiereaceae
495.D46 Didymelaceae
495.D47 Dilleniaceae
495.D48 Dioncophyllaceae
495.D54 Dioscoreaceae (Yam)
495.D545 Dipentodontaceae
495.D56 Dipsacaceae (Teasel)
495.D564 Dipterocarpaceae
495.D67 Doryanthaceae
495.D76 Droseraceae (Sundew)
495.D9 Duckeodendraceae
495.D95 Dysphaniaeae
495.E25 Ebenaceae (Ebony)
495.E33 Elaeagnaceae
495.E35 Elaeocarpaceae
495.E37 Elatinaceae (Waterwort)
495.E44 Empetraceae (Crowberry)
495.E45 Epacridaceae
495.E64 Eremolepidaceae
495.E68 Ericaceae (Heath)
495.E685 Eriocaulaceae (Pipewort)
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495.E82 Erythroxylaceae (Coca)
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495.E84 Eucommiaceae
495.E85 Eucryphiaceae
495.E9 Euphorbiaceae (Spurge)
495.E95 Eupomatiaceae
495.E96 Eupteleaceae
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495.F14 Fagaceae (Beech; Oak)
495.F55 Flacourtiaceae
495.F58 Flagellariaceae
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495.F6
Fouquieriaceae (Ocotillo)
495.F67
Frankeniaceae (Alkali heath)
495.G26
Garryaceae (Silktassel bush)
495.G27
Geissolomataceae
495.G35
Gentianaceae (Gentian)
495.G37
Geosiridaceae
495.G38
Geraniaceae (Geranium)
495.G4
Gesneriaceae (African violet)
495.G56
Globulariaceae
495.G65
Gomortegaceae
495.G655
Goodeniaceae
495.G74
Gramineae (Grass)
495.G745
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495.G75
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495.J865
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495.J875
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495.L375
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495.L46
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495.L52
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495.L528
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495.L53
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495.L72
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495.L73
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495.L74
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495.L76
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495.L78
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495.L785
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495.L87
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495.L88
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495.L9
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495.M24
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495.M245
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495.M26
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495.M27
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495.M28
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495.M285
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495.M287
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495.M51
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495.M5135
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495.M514
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495.M524
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495.M537
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495.M5375
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495.M73
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495.M83
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495.M86
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495.N3  Naiadaceae
495.N33  Nelumbonaceae
495.N35  Nepenthaceae
495.N37  Neuradaceae
495.N58  Nitariaceae
495.N6  Nolanaceae
495.N9  Nyctaginaceae (Four-o’clock)
495.N97  Nymphaeaceae (Waterlily)
495.N975  Nyssaceae (Sour gum)
495.03  Ochnaceae
495.035  Olacaceae (Tallow-wood)
495.044  Oleaceae (Olive)
495.046  Oliniaceae
495.046  Onagraceae (Evening-primrose)
495.062  Opiliaceae
495.064  Orchideae (Orchid)
495.074  Orobancheaceae (Broomrape)
495.098  Oxalidaceae (Wood sorrel)
495.15  Paeoniaceae
495.17  Palmae (Palm)
495.175  Pandaceae
495.18  Pandanaceae (Screw pine)
495.22  Papaveraceae (Poppy)
495.28  Papaverales see QK495.A12
495.42  Passifloraceae (Passionflower)
495.43  Pedaliaceae (Benne)
495.44  Penaeaceae
495.445  Pentaphylacaceae
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495.446  Peridiscaceae
495.45  Philydraceae
495.453  Phymaceae (Lopseed)
495.454  Phytolaccaceae (Poke)
495.5  Picrodendraceae
495.67  Piperaceae (Pepper)
495.7  Pittosporaceae
495.714  Plantaginaceae (Plantain)
495.72  Platanaceae (Sycamore)
495.725  Plumbaginaceae (Leadwort)
495.74  Poaceae see QK495.G74
495.74  Podostemaceae (Riverweed)
495.77  Polemoniaceae (Phlox)
495.775  Polygalaceae (Milkwort)
495.78  Polygonaceae (Buckwheat)
495.783  Pontederiaceae (Pickerelweed)
495.8  Portulacaceae
495.83  Posidoniaceae
495.85  Potamogetonaceae (Pondweed)
495.95  Primulaceae (Primrose)
495.957  Proteaceae (Silk oak)
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495.P9575 Ptaeroxylaceae
495.P958 Punicaceae (Pomegranate)
495.P997 Pyrolaceae
495.Q5 Quinaceae
495.R15 Rafflesiaceae
495.R215 Ranunculaceae (Buttercup)
495.R3 Rapateaceae
495.R4 Resedaceae (Mignonette)
495.R42 Restionaceae
495.R45 Rhamnaceae (Coffeeberry)
495.R46 Rhizophoraceae (Mangrove)
495.R465 Rhoeoideae see QK495.A12
495.R78 Rosaceae (Rose)
495.R85 Rubiaceae (Madder)
495.R956 Ruppiaceae
495.R98 Rutaceae (Citrus)
495.S15 Sabiaceae
495.S16 Salicaceae (Willow)
495.S165 Salvadoraceae (Toothbrush tree)
495.S18 Santalaceae (Sandalwood)
495.S19 Sapindaceae (Soapberry)
495.S2 Sapotaceae (Chicle)
495.S225 Sarcocelaireae
495.S227 Sarcocorniaceae
495.S24 Saraceniaceae (Pitcher plant)
495.S27 Saururaceae (Lizard's-tail)
495.S3 Saxifragaceae (Saxifrage)
495.S35 Scheuchzeriaceae
495.S353 Schisandraceae (Bay-star vine)
495.S43 Scrophulariaceae (Figwort; snapdragon)
495.S45 Scrophulostegiaceae
495.S47 Scytopetalaceae
495.S59 Simaroubiaceae (Tree of heaven)
495.S62 Siparunaceae
495.S65 Smilacaceae
495.S7 Solanaceae (Nightshade)
495.S74 Sonneratiaceae
495.S745 Sparganiaceae (Bar-reed)
495.S7455 Sphaerosepalaceae
495.S7456 Sphenocleaceae
495.S76 Stachyuraceae
495.S765 Stackhousiaceae
495.S77 Staphyleaceae (Bladdernut)
495.S78 Stemonaceae
495.S8 Sterculiaceae (Cacao)
495.S85 Strasburgeriaceae
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495.S9  Styracaceae (Silverbell tree)
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495.T35  Tamaricaceae (Tamarisk)
495.T355  Tetracentraceae
495.T4  Theaceae (Tea)
495.T45  Thelionaceae
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495.T457  Theophrastaceae (Joewood)
495.T46  Thurniaceae
495.T48  Thymelaeaceae
495.T5  Tiliaceae (Linden)
495.T6  Tovariaceae
495.T66  Trapaceae (Water chestnut)
495.T7  Tremandraceae
495.T73  Trigoniacae
495.T735  Trilliaceae
495.T74  Trimeniacae
495.T745  Triuridaceae
495.T75  Trochodendraceae
495.T77  Tropaeolaceae (Nasturtium)
495.T8  Turneraceae
495.T9  Typhaceae (Cattail)
495.U4  Ulmaceae (Elm)
495.U48  Umbelliferae (Parsley)
495.U7  Urticaceae (Nettle)
495.V3  Valerianaceae
495.V4  Velloziaceae
495.V48  Verbenaceae (Verbena)
495.V5  Violaceae (Violet)
495.V53  Viscaceae
495.V55  Vitaceae (Grape)
495.V6  Vochysiaceae
495.W5  Winteraceae
495.X3  Xanthorrhoeaceae
495.X9  Xyridaceae (Yelloweyed grass)
495.Z3  Zannichelliaceae
495.Z65  Zingiberaceae (Ginger)
495.Z7  Zosteraceae
495.Z9  Zygophyllaceae (Creosote-bush)

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504  Periodicals, societies, congresses, serial publications
505  General works, treatises, and textbooks
505.5  Juvenile works
506  Anatomy, physiology, etc.
507  Classification. Systematic works
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509  North America

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  511
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  520
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  521
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  522
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  522.5
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  523
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  523.3
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  524.A29
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  524.A65

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  524.E6
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  524.H9
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524.5
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524.7
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532.5
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533.3
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533.35
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533.5.A-Z
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533.6
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533.7
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533.74
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533.84.A-Z
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535
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537
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537.5
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538
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539.F98
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539.O75
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539.P78
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539.P93
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539.S76
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553
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554
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555.A-Z
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555.A5
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  Anthocerotaceae
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555.B34
  Balantiosporaceae
555.B7
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555.D5
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555.F9
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555.G44
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555.G7
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555.H35
  Haplomitraceae
555.J9
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555.L37
  Lejeuneaceae
555.L4
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555.L58
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555.L6
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555.M2
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555.P45 Plagiochilaceae
555.P6 Porellaceae
555.R5 Ricciaceae
555.S34 Scapaniaceae
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556.8 General works
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557.47.F34 Falkland Islands

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558 Great Britain
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562 New Zealand
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563.75 Periodicals, societies, congresses, serial publications
563.77 Anatomy, physiology, etc.
563.8 General works, treatises, and textbooks
563.84 Classification. Systematic works
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563.85.A57 Anthoceros
563.87.A-Z By region or country, A-Z

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564.6 Dictionaries and encyclopedias
      History
564.7 General works
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564.8 Directories
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565 Laboratory cultures and technique
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566 General works, treatises, and textbooks
566.3 Popular works
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568.E26 Ecology
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568.E85 Evolution
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      For geographic treatment see QK570+
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569.C49 Chlorellaceae
569.C494 Chlorococcaceae
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569.C6 Chlorophyta (Green algae)
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569.C624  Cladophoraceae
569.C63   Coccolithophoridaceae
569.C65   Codiaeae
569.C73   Coleochaetaceae
569.C8    Corallinaceae
569.C86   Crossocarpaceae
569.C95   Cryptonemiaceae
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569.C97   Cystoseiraceae
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569.D34   Dasyycladales
569.D4    Delesseriaceae
569.D43   Desmerestiaeae
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569.D54   Diatoms (Bacillariophyceae. Bacillariophyta. Diatomophyceae)
569.D55   Dinamoebales
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569.E9    Euglenaceae
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569.F64   Florideae
569.F73   Fragilariaceae
569.F95   Fucaceae
569.G4    Gelidiaceae
569.G42   Gelidiales
569.G5    Gigartinaceae
569.G7    Gonidomataceae
569.G8    Gracilariaceae
569.H44   Hemidiscaceae
569.H46   Heteropodiaceae
569.K3    Kallymeniaceae
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569.L56   Lithodermataceae
569.M27   Mallomonadaeae
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569.M48   Mesotaeniaceae
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569.O37  Ochromonadaceae
569.O4   Oedogoniaceae. Oedogoniales
569.O6   Oocystaceae
569.O8   Oscillatoriaceae see QR99.7.O82
569.P25  Palmariaceae
569.P33  Peridiniales
569.P35  Peyssonneliaceae
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569.P5   Phaeophyta
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569.P65  Polyblepharidaceae
569.P68  Porphyriaceae
569.P9   Prasiolaceae
569.P93  Prochloraceae
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569.P974 Prymnesiophyceae
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569.R26  Raphidophyceae
569.R37  Rhodomelaceae
569.R4   Rhodophyta. Rhodophyceae
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569.S43  Selenastraceae
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569.S56  Siphonocladales
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569.T47  Stigmonemataceae see QR99.7.S85
569.T73  Thalassiosiraceae
569.U46  Udoteaceae
569.U5   Ulotrichaceae
569.U55  Ulvaceae
569.U6   Ulvales
569.U66  Ulvophyceae
569.V3   Valoniaceae
569.V35  Vaucheriaceae
569.V9   Volvocaceae
569.V93  Volvocales
569.Z8   Zygnemataceae
569.Z82  Zygnematales

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For particular taxa see QK569.A+

570
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570.2 Physiographic divisions (General)
       Marine
              Cf. SH390+ Fisheries
570.25 Freshwater
Topographical divisions
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Topographical divisions -- Continued
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570.4
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  North America
570.5
  General works
570.7
  Great Lakes region
  United States
571
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571.5.A-Z
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  Canada
571.6
  General works
571.7.A-Z
    By region or province, A-Z
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571.8
  General works
  Mexico
571.85
  General works
571.9.A-Z
    By region or state, A-Z
572
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572.2
  West Indies. Caribbean area (Table Q3)
572.4
  South America (Table Q3)
572.48
  General works
572.5.A-Z
    By region, group of islands, or island, A-Z
  Europe
572.9
  General works
573
  Great Britain
574.A-Z
  Other European regions or countries, A-Z
575
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576
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576.5
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577
  Australia
577.5
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577.8
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578
  Pacific Islands (Table Q3)
  Polar regions
579
  General works
580
  Arctic regions
580.5
  Antarctica
Lichens. Lichenology
580.7
  Periodicals. Societies. Serials
580.74
  Congresses
580.75
  Collected works (nonserial)
580.77
  Dictionaries and encyclopedias
  Biography
580.85
  Collective
580.86.A-Z
    Individual, A-Z
581
  Anatomy, physiology, etc.
583
  General works, treatises, and textbooks
584
  Classification. Systematic works
584.2
  Catalogs and collections
584.6.A-Z
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584.6.E64
  Epiphytic lichens
585.A-Z
  Systematic divisions, A-Z
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585.C28 Caliciales
585.C3 Caloplacaceae
585.C6 Cladoniaceae
585.C65 Collemataceae
585.G8 Graphidaceae
585.H48 Heppiaceae
585.L37 Lecanoraceae
585.L4 Lecidiaceae
585.L53 Lichinaceae
585.L63 Lobariaceae
585.M44 Megalosporaceae
585.O63 Opegraphaceae
585.P17 Pannariaceae
585.P2 Parmeliaceae
585.P34 Peltigeraceae
585.P37 Pertusariaceae
585.P45 Physciaceae
585.R35 Ramalinaceae
585.R7 Roccellaceae
585.S64 Sphaerophoraceae
585.S78 Stereocaulaceae
585.S8 Stictaceae
585.T44 Teloschistaceae
585.T48 Thel彭ellaceae
585.T5 Thelotremataceae
585.T7 Trypetheliaceae
585.U5 Umbilicariaceae
585.V4 Verrucariaceae

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586.4 General works
North America
586.5 General works
586.7 Great Lakes region
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587 General works
587.5.A-Z By region or state, A-Z
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587.6 General works
587.7.A-Z By region or province, A-Z
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587.8 General works
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587.85 General works
587.9.A-Z By region or state, A-Z
588 Central America (Table Q3)
588.2 West Indies. Caribbean area (Table Q3)
588.4 South America (Table Q3)
Atlantic Ocean and islands
588.47 General works
588.48.A-Z By region, group of islands or island, A-Z
Europe
588.5 General works
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589
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590.A-Z
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592
Africa (Table Q3)
593
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594
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597.2
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597.3
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597.5
Antarctica
597.7
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Cf. QR111+ Soil fungi
Cf. QR245+ Pathogenic fungi
Cf. TA423.2+ Decay of wood
600
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600.2
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600.3
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600.35
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600.44
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600.45.A-Z
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600.47
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600.473.A-Z
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600.476
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600.478
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600.48
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600.5
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600.53.A-Z
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.x2A-.x2Z
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600.7
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600.73.A-Z
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Under each country:
.x
General works
.x2A-.x2Z
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601
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Including cytology, morphology
602
Genetics, variation, etc.
603
General works, treatises, and textbooks
Classification. Systematic works
603.2
General works
603.3
Nomenclature
603.5
Juvenile works
604
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604.2.A-Z
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604.2.A52  Anaerobic fungi
604.2.A56  Antagonistic fungi
   Aquatic fungi see QK617.8+
604.2.C62  Colonies
604.2.C64  Communities
604.2.C66  Conservation
604.2.E26  Ecology
604.2.E27  Economic aspects
604.2.E28  Ecophysiology
   Ectomycorrhizas see QK604.2.M92
   Edible fungi see QK617
604.2.E48  Endangered fungi
   Endomycorrhizas see QK604.2.M92
604.2.E53  Endophytic fungi
604.2.E85  Evolution
604.2.H34  Hallucinogenic mushrooms
604.2.H95  Hypogeous fungi
604.2.I36  Identification
604.2.L53  Lichen-forming fungi
604.2.L54  Lichenicolous fungi
604.2.M64  Molecular biology
604.2.M89  Mycoparasitism
604.2.M92  Mycorrhizas. Mycorrhizal fungi
   Including ectomycorrhizas and endomycorrhizas
   Cf. SB106.M83 Plant culture
604.2.N45  Nematode-destroying fungi
   Pathogenic fungi see QR245+
604.2.P45  Phytopathogenic fungi
   Cf. SB733 Control of phytopathogenic fungi and fungal diseases of plants
604.2.P56  Pleomorphic fungi
   Poisonous fungi see QK617
604.2.P64  Populations
604.2.P73  Predacious fungi
604.2.S25  Saprophytic fungi
   Soil fungi see QR111+
604.2.S86  Straminipilous fungi
604.2.W65  Wood-decaying fungi
   Cf. TA423.2+ Deterioration and preservation of wood
604.2.W66  Wood-staining fungi
   Cf. TA423.4 Deterioration and preservation of wood
   Yeast fungi see QK617.5
604.2.Z66  Zoosporic fungi
   Local
   America
604.4  General works
   North America
604.5  General works
604.7  Great Lakes region
   United States
605  General works
605.5.A-Z  By region or state, A-Z
   Canada
605.6  General works
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Latin America
605.7.A-Z
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605.8
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606.2
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606.4
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606.5
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607
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608.A-Z
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609
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610
Africa (Table Q3)
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611.5
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612
Pacific islands (Table Q3)
615
Arctic regions
615.5
Antarctica
615.7
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617
Edible and poisonous fungi. Mushrooms (Popular works)
For geographic treatment see QK604.4+
For systematic treatment see QK621+
Cf. SB352.85+ Culture
617.5
Yeast fungi (General)
For geographic treatment see QK604.4+
For systematic treatment see QK621+
Cf. QR151+ Microorganisms of fermentation
Cf. TP433 Food processing and manufacture
Cf. TP580+ Brewing
Aquatic fungi (General)
For geographic treatment see QK604.4+
For systematic treatment see QK621+
617.8
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618
Marine fungi (General)
618.2
Freshwater fungi (General)
Systematic divisions
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621.A1
General works, treatises, and textbooks
621.A2-Z
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621.A42
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621.B37
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621.B6
Blastocladiaceae
621.C48
Choanephoraceae
621.C5
Chytridiaceae
621.C63
Coelomomyctaceae
621.E3
Eccrinales
621.E47
Endogonaceae
621.E49
Entomophthoraceae
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621.E5
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621.L44
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Molds see QK600+

621.M6
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621.M64
Mortierellaceae

621.M94
Mucoraceae

621.M96
Mucorales

621.O4
Olpidiaceae
Oomycetes see QK621.A1

621.P45
Peronosporaceae

621.P47
Peronosporales

621.P9
Pythiaceae

621.R5
Rhipidiaceae

621.S24
Saprolegniaceae

621.S25
Saprolegniales

621.S9
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621.T45
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621.W6
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623.A1
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623.A2-Z
Special, A-Z

623.A8
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623.A93
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623.C36
Capnodiaceae

623.C53
Chaetomiaceae

623.C55
Clavicipitaceae

623.C57
Clavicipitales

623.D47
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623.D55
Diaporthales
Discomycetes see QK623.A1

623.D72
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623.D74
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623.E4
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623.E56
Endomycetaceae

623.E7
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623.E73
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623.G55
Gnomoniaceae

623.G94
Gymnoascaceae

623.H35
Helotiaceae

623.H4
Helvellaceae

623.H76
Hyaloscyphaceae

623.H86
Hypocreaceae

623.H87
Hypomycetaceae

623.H88
Hysteriaceae

623.L3
Laboulbeniales

623.L39
Leotiaceae

623.L6
Lophiostomaceae
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623.M36 Manglicolaceae
623.M38 Melanconidaceae
623.M39 Melanommatales
Meliolaceae see QK623.M4
623.M4 Meliolales. Meliolarceae
623.M5 Microthyriaceae
623.M63 Monascaceae
623.M65 Morchellaceae
623.M89 Mycocallicales
623.M93 Mycosphaerellales. Mycosphaerellaceae
623.N43 Nectriaceae
623.O58 Onygenaceae
623.O6 Ophiostomataceae
623.O75 Otideaceae
Patellariaceae see QK623.P5
Penicillium see QK625.M7
623.P5 Pezizaceae
623.P53 Pezizales
623.P6 Phacidiaceae
623.P63 Phyllachoraceae
623.P66 Pleosporaceae
623.P68 Pleosporales
623.P8 Pseudosphaeriaceae
Pyrenomycetes see QK623.A1
623.P93 Pyrenulaeaceae
623.P95 Pyronemataceae
623.R45 Rhytisamtaeaceae
623.S23 Saccharomycetaeaceae
623.S26 Sarcoscyphaceae
623.S27 Sarcosomataceae
623.S3 Sclerotiniaceae
623.S6 Sordariaceae
623.S73 Sphaeriales
623.S76 Sphaeriales
623.T3 Taphrinaceae
623.T54 Thermoascaceae
623.T75 Trichocomaceae
623.T8 Tuberaceae
623.V35 Valsaceae
623.V46 Venturiaceae
623.X9 Xylariaceae
623.Z64 Zopfiaceae
Fungi imperfecti (Deuteromycetes)

625.A1 General works, treatises, and textbooks
625.A2-Z Special, A-Z
625.A48 Agonomycetaceae
625.C76 Cryptococcaceae
625.D4 Dematiaceae
Discellaceae see QK625.E9
625.E9 Excipulaceae
Hyphomycetes see QK625.A1
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625.L4  Leptostromataceae
625.M4  Melanconiaceae
   Melanconiales see QK625.M4
625.M7  Moniliaceae
625.M74 Moniliiales
   Mucedinaceae see QK625.M7
625.M9  Mycelia Sterilia
   Nectrioidaceae see QK625.Z9
   Phyllostictaceae see QK625.S5
   Phyllostictales see QK625.S6
625.R4  Rhizoctonia
   Sphaerioidaceae see QK625.S5
625.S5  Sphaeropsidaceae
625.S6  Sphaeropsidales
   Stilbaceae see QK625.S7
625.S7  Stilbellaceae
625.T8  Tuberculariaceae
625.Z9  Zythiaceae

Basidiomycota

626  General works, treatises, and textbooks

Teliomycetes

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

Ustomycetes

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

Basidiomycetes

628.5  General works, treatises, and textbooks
629.A-Z  Special, A-Z
629.A4  Agaricaceae
629.A44  Agaricales
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Basidiomycota
Basidiomycetes
Special, A-Z -- Continued

629.A53
Amanitaceae
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Aphyllophorales
see QK628.5

629.A74
Atheliaceae

629.A8
Auriculales. Auriculariaceae

629.B58
Bolbitiaceae

629.B6
Boletaceae

629.B63
Boletales

629.C3
Cantharellaceae

629.C33
Cantharellales

629.C6
Clavariaceae

629.C783
Coriolariales

629.C785
Corticiaceae

629.C787
Cortinariaceae

629.C83
Crepidotaceae

629.C95
Cyphellaceae

629.C97
Cystofilobasidiales. Cystofilobasidiaceae

629.D2
Dacrymycetaceae

629.E34
Echinodontiaceae

629.E56
Entolomataceae

(629.E9)
Exobasidiaceae
see QK627.53.E93

629.F37
Favolaschiaceae

629.G18
Ganodermataceae

629.G4
Gasteromycetes see QK626+

Geastraceae
Geastrales see QK629.L92

629.G6
Gomphaceae

629.H8
Hydnaceae

629.H86
Hygrophoraceae

629.H89
Hymenochaetaceae

629.H9
Hymenogastraceae

Hymenomycetes see QK626+

629.L33
Lachnocladiaceae

629.L9
Lycoperdaceae

629.L92
Lycoperdales

629.M4
Melanogastraceae

629.N5
Nidulariales. Nidulariaceae

629.P55
Peniophoraceae

629.P6
Phallaceae

629.P63
Phallales

629.P64
Phanerochaetaceae

629.P67
Pluteaceae

629.P7
Polyporaceae

629.P74
Poriales

(629.R5)
Rhodophyllaceae
see QK629.E56

629.R87
Russulaceae

629.S35
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Basidiomycetes
Special, A-Z -- Continued

(629.S4)
  Septobasidiaceae
  see QK626.5

629.S73
Steraceae
629.S76
Strobilomycetaceae
629.S77
Strophariaceae
629.T4
Thelephoraceae
629.T67
Tremellaceae
629.T7
Tremellales
629.T73
Tricholomataceae
629.T8
Tulasnellaceae

(633)
Myxobacterales
  see QR82.M95
Myxomycetes (Slime molds)

635.A1
  General works, treatises, and textbooks
635.A2-Z
  Special, A-Z
635.C4
  Ceratiomyxaceae
635.D5
  Dictyosteliaceae
635.D53
  Dictyosteliales
635.P5
  Physaraceae
635.P6
  Plasmodiophoraceae
635.P65
  Plasmodiophorales
635.S8
  Stemonitaceae

(638)
Eccrinales
  see QK621.E3

Plant anatomy
  Including plant morphology
  Cf. QK665 Embryology
  Cf. QK671 Histology
  Cf. QK725 Cytology

640
Periodicals. Societies. Serials
640.2
Collected works (nonserial)
640.3
Congresses
640.4
Dictionaries and encyclopedias
641
General works, treatises, and textbooks
642
Pictorial works and atlases
642.5
Addresses, essays, lectures

(643)
Individual plants and groups of plants
  see QK495+

Vegetative organs

644
Root and modifications. Root tubercles
  Bacteriology of root nodules see QR113
644.5
Haustoria
  Shoot
    Including buds, apexes, etc.

645
General works
Stem
  Including bulbs, rhizomes, types of branching

646
General works
646.7
Tree trunks
647
Wood
### Plant anatomy
#### Vegetative organs
- **Shoot**
  - **Stem -- Continued**
  - **Bark**
- **Leaf and modifications. Stipules**
- **Appendages**
  - Including trichomas, thorns, spines, tendrils, scales, hairs, etc.
- **Thallus**

#### Reproductive organs of spermatophytes
- **General works**
- **Flower and inflorescence**
  - **General works**
  - **Receptacle**
  - **Perianth**
    - **General works**
    - **Calyx**
    - **Corolla**
  - **Androecium. Palynology**
    - Including stamens, pollen, etc.
  - **Gynoecium**
    - Including pistils, ovary, etc.
- **Fruit and seed**
  - **General works**
  - **Seed**
    - Cf. QK898.S43 Seed storage compounds
- **Reproductive organs of cryptogams**
- **Alternation of generations**
- **Teratology**
- **Embryology**
  - Including embryos, embryosacs, morphogenesis, spermatogenesis, etc.
  - (667) **Phylogeny**
    - see QK989
- **Nomenclature of color as applied to plant description**
- **Histology**
- **Technique**
  - Including microscopy, microtechnique, photomicrography
  - (683-707) **Individual parts**
    - see QK644+

#### Plant physiology
- **Periodicals, societies, serial publications**
- **Congressess**
- **General works, treatises, and textbooks**
  - **Through 1969**
  - **1970-**
- **Juvenile works**
- **Study and teaching. Research**
  - **General works**
  - **Problems, exercises, examinations**
  - **Experiments**
  - **Laboratory manuals**
- **Instruments and apparatus**
  - **General works**
  - **Phytotrons and growth chambers**
Plant physiology -- Continued

Plant ecophysiology
   Including plant resource allocation
   For geographic treatment see QK108+
   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+

Growth. Development
   Including pattern formation
   Cf. QK665 Embryology

General works

Germination

Factors influencing growth

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

General works, treatises, and textbooks
   Including nutritive matter, etc.

Pollutants
   Cf. SB744.5+ Plant pathology

Special chemicals, A-Z

Acids

Alkaloids

Aluminum

Arsenic

Ascorbic acid see QK753.V58

Atrazine

Auxin

Benzylaminopurine

Borax

Boron

Cadmium

Calcium

Carbon dioxide

Chelates

Chlorides

Chlorophenoxyacetic acid

Cobalt

Colchicine

Copper

Copper chlorides

Detergents

Dichlorophenoxyacetic acid

Essences and essential oils

Ethylene

Fluorescein

Fluorides

Galactose
Plant physiology
  Physical plant physiology
    Chemical agents affecting plants
      Special chemicals, A-Z -- Continued
  753.G47 Gases
  753.G5 Gibberellins, Gibberellic acid
  753.H4 Heavy metals
  753.H45 Herbicides
    Cf. SB744.25 Herbicide injuries
  753.H93 Hydrogen-ion concentration
  753.I5 Indolacetic acid
  753.I54 Insecticides
  753.I6 Iodine
  753.I7 Iron
  753.L37 Latex
  753.M27 Magnesium
  753.M3 Manganese
  753.M47 Metals
  753.M56 Minerals
  753.M6 Molybdenum
  753.N5 Nitrates
  753.N54 Nitrogen
  753.P37 Pentachlorophenol
  753.P4 Petroleum
  753.P48 Phosphorus
  753.P65 Poisons
  753.P67 Polycyclic aromatic hydrocarbons
  753.P7 Potassium
  753.R33 Radioactive substances
    Cf. SB746 Plant pathology
  753.S3 Salt
  753.S32 Salts
  753.S5 Silicon
  753.S57 Sodium fluoride
  753.S6 Sodium sulfate
  753.S65 Succinic acid
  753.S7 Sugars
  753.S8 Sugars
  753.S84 Sulfur
  753.S85 Sulfur dioxide
  753.T5 Thallium
  753.T53 Thiamine
  753.T55 Thioureas
  753.T7 Trace elements
  753.T75 Tritium
  753.V58 Vitamin C
  753.X45 Xenobiotics
  753.Z5 Zinc
Physical agents affecting plants (General)
  Cf. QK870+ Effect of floods, water levels, etc.
  754 General works
  754.4 Atmosphere
Plant physiology
Physical plant physiology
Physical agents affecting plants (General) -- Continued
Climate
Cf. QK913 Acclimatization
Cf. QK914 Phenology
Cf. S600+ Crops and climate
Cf. SD390.5+ Forests and climate

754.5
General works
Local see QK108+

754.7.A-Z
Special topics, A-Z
Drought tolerance see QK754.7.D75

754.7.D75
Droughts. Drought tolerance
Cf. SB791 Plant pathology
Frost see QK756

754.7.S55
Snow
Temperature see QK755+

754.7.W55
Wind
Cf. SB793 Plant pathology

Temperature
755
General works
755.5
Heat
Including heat production in plants
756
Cold. Frost
Cf. SB781 Plant pathology

757
Radiation
Including light, X-rays, ultraviolet rays, etc.

758
Electricity
759
Mechanical forces
759.5
Volcanic eruptions
760
Space flight

761
Periodicity. Dormancy. Photoperiodism
Aging. Senescence
762.5
General works
763
Shedding of leaves, etc. Abscission
769
Miscellaneous special topics
Movement. Irritability in plants
771
General works
Movement affecting growth
773
Nutation. Torsion
Climbing plants, tendrils, etc.
776
Miscellaneous induced movements
Including geotropism, phototropism, heliotropism, etc.
791
Movement of variation (not affecting growth)
793
Mechanics

Reproduction
Cf. QK982 Hybridization
825
General works
826
Asexual reproduction
827
Sexual reproduction
828
Fecundation. Fertilization. Sterility
830
Flowering
Cf. SB126.8 Plant culture
840
Reparative processes. Regeneration
Cf. SD406 Tree surgery, etc.
Plant physiology
Physical plant physiology -- Continued

844  Luminescence. Light production

845  Electrophysiology of plants
      Cf. QK758 Effect of electricity on plants

Botanical chemistry. Phytochemicals
  Cf. QK981.3 Biochemical genetics
  Cf. QR148 Microbiological chemistry

861  General works, treatises, and textbooks
    Analysis and composition of plants
      For chemistry of wood see TS932+

865  General works
(866)  Chemical analysis of individual plants
      see QK495+

Nutrition. Plant food. Assimilation of nitrogen, etc.

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

870  General works
871  Absorption of water. Osmosis, sap movements, wilting, translocation, etc.
873  Transpiration. Action of stomata, etc.
875  Gases in plants
876  Gases from plants

Metabolism

881  General works
882  Photosynthesis. Assimilation and utilization of carbon dioxide
887  Formation of new organic matter
891  Respiration
894  Anaerobiosis
896  Fermentation. Enzymes, diastase, etc.
897  Miscellaneous products

898.A-Z  Special plant constituents, A-Z
898.A15  Abscisic acid
898.A156  Acetolactate synthase
898.A16  Acetylenes
898.A18  Adenosine triphosphatase
898.A2  Albumins
898.A3  Algin
898.A4  Alkaloids
      Cf. QD421+ Chemistry
898.A43  Allelochemicals. Allelopathic agents
898.A5  Amino acids
898.A52  Aminoaoyl-tRNA
898.A53  Amyloid
898.A55  Anthocyanins
898.A57  Antioxidants
898.A59  Antiviral proteins
898.A67  Arabinogalactan
898.A7  Ascorbic acid
898.A74  Asparagaine
898.A8  Auxin
898.B54  Bioactive compounds
898.B56  Biogenic amines
898.B85  Brassinosteroids
898.C2  Calcium
Plant physiology
Botanical chemistry. Phytochemicals
Nutrition. Plant food. Assimilation of nitrogen, etc.
Special plant constituents, A-Z -- Continued

898.C3
Carbohydrates
898.C34
Carotenoids
898.C35
Carotin
898.C42
Cellulose
898.C44
Chlorides
898.C45
Chlorine
898.C5
Chlorophyll
898.C52
Chloroplast DNA
898.C6
Cobalt
898.C94
Cytokinins
898.D44
Deoxyribonucleic acid. DNA
898.D46
Depsidones
898.D54
Dimethylpropiothetin
DNA see QK898.D44
898.E58
Enzymes
898.E75
Essences and essential oils
898.E8
Ethylene
898.F3
Fatty acids
898.F5
Flavonoids
898.F53
Flavonols
898.G45
Gibberellins
898.G475
Glucose
898.G48
Glutamate dehydrogenase
898.G485
Glutathione
898.G49
Gluten
898.G497
Glycoproteins
898.G5
Glycosides
898.H45
Hemicellulose
898.H67
Hormones
898.I53
Indole alkaloids
898.I55
Inositol
898.I7
Iron
898.I76
Isopentenoids
898.I78
Isoquinoline
898.I8
Isozymes
898.L23
Laccase
898.L3
Latex
898.L42
Lectins
898.L5
Lignin
898.L54
Limonoinds
898.L56
Lipids
898.L9
Lycopene
898.M25
Malate dehydrogenase
898.M28
Malonic acid
898.M3
Manganese
898.M8
Mucilage
898.N5
Nicotinic acid
898.N57
Nitrites
898.N58
Nitric oxide
898.N6
Nitrogen
898.N8
Nucleic acids
898.N83
Nucleotides
Plant physiology

Botanical chemistry. Phytochemicals
Nutrition. Plant food. Assimilation of nitrogen, etc.
Special plant constituents, A-Z -- Continued

898.O4 Olive oil
898.O88 Oxalates
898.O9 Oxidases
898.O92 Oxygen
898.P2 Patellaric acid
898.P3 Patulin
898.P4 Pectin
898.P47 Peroxidase
898.P57 Phenols
898.P59 Phosphoproteins
898.P6 Phosphorus
898.P64 Phycobiliproteins
898.P65 Phytin
898.P66 Phytoalexins
898.P67 Phytochrome
898.P677 Phytoliths
898.P68 Phytomelanes
898.P7 Pigments
898.P73 Plastocyanin
898.P75 Plumieride
898.P756 Polyanines
898.P76 Polymers
898.P764 Polyphenols
898.P77 Polysaccharides
898.P79 Protein kinases
898.P8 Proteins
898.P82 Proteolytic enzymes
898.P84 Protochlorophyllide
898.P97 Pyrrolizidines
898.S43 Seed storage compounds
For works limited to special compounds see the compound, e.g., Proteins see QK898.P8
898.S45 Selenium
898.S48 Sesquiterpene lactones
898.S49 Sesquiterpenes
898.S55 Shikimic acid
898.S64 Solanine
898.S67 Starch
898.S7 Steroids
898.S78 Sugar
898.S8 Sulfur
898.T2 Tannins
898.T4 Terpenes
898.U68 Uric acid
898.U7 Uronic acids
898.V5 Vitamins
899 Miscellaneous special topics

Plant ecology
Cf. QH540+ General ecology
900 Periodicals. Societies. Serials
900.2 Congresses
900.4 Dictionaries
History
Plant ecology

900.7 History -- Continued
900.73.A-Z General works
901 By region or country, A-Z
903 General works, treatises, and textbooks
(903) Ecological discussion of areas
        see QK108+
(905) Plant ecophysiology
        see QK717
909 Illustrations of floral ecology of regions
909.5 Vegetation productivity. Primary productivity
        Cf. QK564+ Algae
        Cf. QK882 Photosynthesis
        Cf. QK933+ Phytoplankton
        Cf. QK938.F6 Forest ecology
910 Vegetation dynamics
911 Vegetative interrelation. Plant communities. Phytosociology
912 Plant adaptation
913 General works
914 Acclimatization
        Cf. QK754.5+ Vegetation and climate
915 Phenology
916 Nutritive adaptation
917 General works
918 Aquatics, ice plants, dew plants
919 Insectivorous plants. Carnivorous plants
921 Parasites, saprophytes, symbionts
922 Protective adaptations
923 General works
924 Epiphytes, xerophytes, salt-marsh and desert plants
        Cf. QK938.D4 Desert flora
        Cf. QK938.S27 Salt marsh flora
925 Spines, secretion, raphides
924.5 Myrmecophilism, acarophilism
924.5 Plant canopies
925 Reproductive interrelation
926 General works
927 Pollination
929 Dissemination
Physiographic regions (General)
        For geographic treatment see QK108+
930 Water
931 General works
932 Marine
        Cf. QK938.C6 Coasts
932.7 Freshwater
         General works
935 Streams
         Cf. QK105 Flora
         Phytoplankton
934 General works
935 Marine
935 Freshwater
Land
         General
         see QK101+ and QK901+
Plant ecology
Physiographic regions (General)
   Land -- Continued

936  Tropics
937  Mountains
938.A-Z  Other special, A-Z
   Bogs see QK938.M3
938.B8  Burned land
938.C3  Caves
   Chalk see QK938.L5
938.C55  Cloud forest plants
938.C6  Coasts
938.D4  Deserts
938.D9  Dunes
938.F6  Forests
   Cf. QK938.C55 Cloud forest plants
   Cf. QK938.M27 Mangrove forests and swamps
   Cf. QK938.R34 Rain forests
   Cf. QK938.T34 Taigas
   Grasslands see QK938.P7
938.H4  Heathlands
938.H44  Hedges. Hegerows
938.I84  Islands
938.L5  Limestone, chalk, etc.
938.M27  Mangrove forests and swamps
938.M3  Marshes, bogs, swamps, etc.
   Cf. QK938.M27 Mangrove forests and swamps
   Cf. QK938.P42 Peat bogs
938.M4  Meadows, pastures
938.M45  Mediterranean-type plants
   Cf. QK314.5 Mediterranean Region
938.M6  Moors
938.P3  Paramos
938.P42  Peatlands. Peat bogs
938.P7  Prairies. Grasslands. Velds
938.R34  Rain forests
938.R6  Rocks
938.S27  Salt marshes. Tide marshes
   Cf. QK922 Halophytes
   Cf. QK938.M27 Mangrove forests and swamps
938.S3  Sand barrens
938.S36  Seashore
938.S4  Semiarid regions
938.S45  Serpentes
938.S57  Shrublands
   Swamps see QK938.M3
938.T34  Taigas
   Tide marshes see QK938.S27
938.T8  Tundras
   Velds see QK938.P7
938.V5  Vineyards
(940-977.5)  Topographical divisions
   see QK108+
Plant ecology -- Continued
Evolution of plants (General)
For works limited to specific divisions, classes, etc. see QK494+
For works limited to special crops see SB177.A+
980
General works
Genetics
981
General works
981.3
Biochemical genetics
981.35
Cytogenetics
981.4
Molecular genetics
981.45
Genome mapping
981.5
Genetic engineering
981.7
Germplasm resources
Cf. SB123.3+ Crop germplasm resources
982
Hybridization
983
Variation
985
Selection, natural and artificial
For works limited to plant-breeding see SB123+
987
Degeneration
989
Phylogeny
Zoology
   For animal ecology see QH540+
   For animal culture see SF1+
1   Periodicals, societies, congresses, serial publications
3   Collected works (nonserial)
5   Voyages and expeditions
7   Encyclopedias
9   Dictionaries
   Communication of information
      General works
9.2
9.3   Information services
9.4   Computer network resources
      Including the Internet
Classification. Nomenclature see QL351+
10  Terminology, notation, abbreviations
    Cf. QL353+ Nomenclature
History
15  General works
21.A-Z   By region or country, A-Z
   Biography
26        Collective
           e.g.
31.A9    Audubon
31.C9    Cuvier
35        Directories
   General works and treatises
41  Early through 1759
45  1760-1969
45.2  1970-
46        Pictorial works and atlases
46.5    Zoological illustrating
   Textbooks
      Advanced
47  Through 1969
47.2  1970-
48        Elementary
48.2  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

69.A3-Z Museums. Exhibitions
   Class here descriptions, catalogs, annual reports, etc.
   For serial research publications see QL1

71.A1 General works
71.A2-Z By region or country, A-Z
   Subarrange each country by Table Q5

72 Commercial lists

73 Menageries
   73.A1 General works
   73.A2-Z By region or country, A-Z
      Subarrange each country by Table Q5

76 Zoos. Zoological gardens
   76 General works
   76.5.A-Z By region or country, A-Z
      Subarrange each country by Table Q5

77.5 Zoo animals
   Cf. SF408+ Culture and care
   Cf. SF995.84+ Veterinary medicine

Public aquariums
   Cf. SF456+ Home aquariums
Public aquariums -- Continued
78
General and freshwater aquariums
78.5
Marine aquariums. Saltwater aquariums
79.A-Z
By region or country, A-Z
Subarrange each country by Table Q5
81
Addresses, essays, lectures
Wildlife conservation. Rare animals. Endangered species. Wildlife refuges. Wildlife habitat improvement
Including rare and endangered vertebrates
For conservation of particular animals and groups of animals, see QL366+
For habitat improvement of game animals see SK356.W54
Cf. HE5620.W54 Wildlife and traffic safety
Cf. QL676.5+ Bird refuges
Cf. SK351+ Wildlife management. Game protection
Cf. SK590+ Wild animal trade
81.5
Periodicals. Societies. Congresses
81.7
History (General)
For history of a particular place see QL84+
82
General works
83
Juvenile works
83.15
Study and teaching. Research
83.17
Wildlife monitoring
For local see QL101+
83.2
Wildlife rescue
Including wildlife relocation and replacement, rescue of injured or orphaned animals, etc.
Cf. SF996.45 Wildlife rehabilitation
83.4
Wildlife reintroduction
By region or country
North America
84
General works
United States
84.2
General works
84.22.A-Z
By region or state, A-Z
Canada
84.24
General works
84.26.A-Z
By region or province, A-Z
Mexico
84.28
Central America
84.285.A1
General works
84.285.A3-Z
By region, country, or island, A-Z
West Indies
84.29.A1
General works
84.29.A3-Z
By region, country, or island, A-Z
South America
84.3.A1
General works
84.3.A3-Z
By region, country, or island, A-Z
Europe
84.4.A1
General works
84.4.A3-Z
By region, country, or island, A-Z
Asia
84.5.A1
General works
84.5.A3-Z
By region, country, or island, A-Z
Africa
84.6.A1
General works
84.6.A3-Z
By region, country, or island, A-Z
Australia and Indo-Pacific islands
Wildlife conservation. Rare animals. Endangered species. Wildlife refuges. Wildlife habitat improvement
By region or country
Australia and Indo-Pacific islands -- Continued
84.7.A1
Australia
84.7.A3-Z
Other. By region, country, or island, A-Z
85
Animals and civilization. Human-animal relationships
86
Animal introduction. Introduced animals
For local see QL101+
Cf. QL606 Introduced vertebrates
Cf. SB990+ Pest introduction
Cf. SF87 Acclimatization of livestock
87
Animals in the ancient world
Bible zoology see BS663
87.5
Dead animals
Extinct animals
Including extinction
Cf. QL81.5+ Endangered animals
Cf. QL676.8 Extinct birds
Cf. QL707 Extinct mammals
88
General works
88.15.A-Z
By region or country, A-Z
Cryptozoology
88.3
General works
88.5
Living fossils
Alleged animals
Cf. BF1484 Animal ghosts
Cf. GR705+ Animal folklore
Cf. GR825+ Mythical animals
Cf. GR910 Mermaids. Sea monsters
89
General works
89.2.A-Z
By animal, A-Z
Abominable snowman see QL89.2.Y4
89.2.B43
Beast of Exmoor
89.2.C37
Carcharocles megalodon
Cf. QE852.L35 Paleozoology
89.2.C53
Champ (Monster)
89.2.C57
Chupacabaras
89.2.D68
Dover demon
89.2.K73
Kraken
89.2.L6
Loch Ness monsters
89.2.M58
Mokele-mbembe
89.2.M6
Morag
89.2.M68
Mothman
89.2.O34
Ogopogo
89.2.R67
Ropen
89.2.S2
Sasquatch
89.2.S4
Sea serpents
89.2.S44
Serpents
89.2.Y4
Yeti
Migratory animals see QL754
(95)
Noxious animals
see SF84+
99
Medical zoology
Cf. RA639+ Transmission of disease
Dangerous animals. Poisonous animals
   Cf. QL468.8 Insects
   Cf. QL618.7 Fishes
   Cf. QP631+ Toxins, venom, poisons
100  General works
100.5 Animal attacks

Geographical distribution
101  General works, treatises, and textbooks
    Polar regions
104  General works
105  Arctic regions
      Including Greenland
      Cf. QL126 Arctic Ocean
106  Antarctica
      Cf. QL126.5 Antarctic Ocean
107  Temperate regions
109  Tropics

Physiographic divisions
   Soil
      Cf. QR111+ Soil microorganisms
110  General works
110.5 Compost
     Land
111  Islands
      Cf. QL125 Coral reefs
112  Forests
113  Mountains
      Cf. QL254 Alps
113.77 Valleys. Floodplains
     Wetlands
113.8  General works
114  Marshes. Tidemarshes
114.5  Swamps
115  Plains
     Grasslands. Prairies
115.3  General works
115.5  Meadows. Fields
116  Deserts
117  Caves
118  Subterranean waters
      Including groundwater
119  Gardens

Water
120  General works, treatises, and textbooks
120.5 Suspension feeders
     Ocean
121  General works
122  Popular works
122.2  Juvenile works
123  Zooplankton
(124)  Animal ecology of the ocean
      see QH541.5.S3
125  Coral reefs
125.5  Deep-sea
125.6  Hydrothermal vents
126  Arctic Ocean
Geographical distribution
Physiographic divisions
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Ocean -- Continued
126.5
Antarctic Ocean
Atlantic Ocean
127
General works
128
North Atlantic Ocean. North Sea, etc.
131
Baltic Sea
132
Black Sea. Sea of Azov
133
Mediterranean Sea
134
Gulf of Mexico
134.5
Caribbean Sea
135
South Atlantic Ocean
137
Indian Ocean. Red Sea
137.5
Indo-Pacific Region
138
Pacific Ocean
139
Brackish water. Estuaries
Fresh water
141
General works
Groundwater see QL118
142
Water surface. Surface films. Neuston
143
Zooplankton
145
Streams
146
Lakes
146.3
Ponds
147
Springs
Including hot springs
148
Wells
149
Stagnant water
Topographical divisions (Faunas)
America
150
General works
North America
151
General works
United States
155
General works
157.A-Z
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157.A84
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157.M52
Middle Atlantic States
157.M53
Middle West
157.N48
New England
157.N67
Northeastern States
157.P33
Pacific Coast
157.S68
Southern States
157.S69
Southwestern States
Including Southwest, New
159
Alabama
161
Alaska
162
Arizona
163
Arkansas
164
California
165
Colorado
166
Connecticut
167
Delaware
168
District of Columbia
Geographical distribution

Topographical divisions (Faunas)

America
North America
United States -- Continued

169  Florida
171  Georgia
   Hawaii see QL345.H3
172  Idaho
173  Illinois
175  Indiana
176  Iowa
177  Kansas
178  Kentucky
179  Louisiana
181  Maine
182  Maryland
183  Massachusetts
184  Michigan
185  Minnesota
186  Mississippi
187  Missouri
188  Montana
189  Nebraska
191  Nevada
192  New Hampshire
193  New Jersey
194  New Mexico
195  New York
196  North Carolina
197  North Dakota
198  Ohio
199  Oklahoma
201  Oregon
202  Pennsylvania
203  Rhode Island
204  South Carolina
205  South Dakota
206  Tennessee
207  Texas
208  Utah
209  Vermont
211  Virginia
212  Washington
213  West Virginia
214  Wisconsin
215  Wyoming
   Including Yellowstone National Park

Canada

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

Latin America

223  General works
225  Mexico
227  Central America

General works
Geographical distribution
Topographical divisions (Faunas)
America
Latin America
Central America -- Continued
228.A-Z
By region or country, A-Z
West Indies. Caribbean Area
229.A2
General works
229.A4-Z
By individual island or group of islands, A-Z
229.A58
Antilles, Lesser
229.B3
Bahamas
229.C39
Cayman Islands
229.C9
Cuba
229.D65
Dominica
229.H35
Haiti
229.H57
Hispaniola
229.I5
Inagua
229.L4
Leeward Islands
229.P6
Puerto Rico
229.T7
Trinidad
229.V57
Virgin Islands
234
Bermuda
South America
235
General works
By region or country
239
Argentina
241
Bolivia
242
Brazil
243
Chile
244
Colombia
245
Ecuador
For Galapagos Islands see QL345.G2
246
Guyana (British Guiana)
246.2
Suriname (Dutch Guiana)
246.4
French Guiana
247
Paraguay
247.4
Paraná River
248
Peru
249
Uruguay
251
Venezuela
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252.A1
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252.A3-Z
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252.C35
Cape Verde. Cabo Verde
252.F32
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253
General works
254
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Including Alps, Balkan Peninsula, Baltic States, etc.
British Isles. Great Britain
255
General works
256
England
257
Ireland
257.5
Northern Ireland
Geographical distribution
Topographical divisions (Faunas)
Europe
British Isles. Great Britain -- Continued
258
Wales
259
Scotland
261
Austria
262
Hungary
France
263
General works
264
Colonies and mandated territories
265
Germany
271
Greece
273
Italy
273.5
Malta
275
Netherlands
277
Belgium
278
Luxembourg
281
Russia. Soviet Union. Russia (Federation)
Cf. QL331 Russia in Asia. Siberia. Russian Far East
Cf. QL332+ Central Asia
Cf. QL333.7 Caucasus
282
Belarus
282.5
Moldova
283
Ukraine
284
Poland
285
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286
Scandinavia (General)
Denmark
287
General works
Faroe Islands see QL252.F32
288
Iceland
289
Norway
291
Sweden
293
Spain
294
Portugal
Including the Azores, Madeira, etc.
296
Switzerland
297
Turkey in Europe
For Balkan Peninsula (General) see QL254
For individual Balkan countries see QL298.A+
For Turkey in Asia see QL333.5
298.A-Z
Other European countries, A-Z
298.B8
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298.C8
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298.E86
Estonia
298.L3
Latvia
298.L58
Lithuania
298.R8
Romania
298.S65
Slovakia
298.Y8
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300
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304
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305
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Asia -- Continued

(306) Baluchistan
307 China
307.2 Taiwan
308 East Indies
309 India
Indochina. Malay Peninsula
312 General works
313 Vietnam
314 Cambodia
315 Laos
317 Thailand
318 Straits Settlements
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319 General works
319.5 Borneo. Kalimantan
320 Brunei
321 Indonesia
For Kalimantan see QL319.5
For Papua see QL322.5
322 Malaysia
322.5 New Guinea
Including Papua (Indonesia) and Papua New Guinea
323 Philippines
Japan
325 General works
325.3 Ryukyu Islands
Including Okinawa
327 Korea
329 Iran
331 Russia in Asia. Siberia. Russian Far East
Central Asia
332 General works
332.3 Kazakhstan
332.4 Kyrgyzstan
332.5 Tajikistan
332.6 Turkmenistan
332.7 Uzbekistan
333 Israel. Palestine
333.3 Syria
333.5 Turkey in Asia. Asia Minor
333.7 Caucasus
Including Armenia, Azerbaijan, Georgia (Republic)
334.A-Z Other regions or countries, A-Z
(334.A75) Asia, Western
see QL334.M53
334.B34 Bangladesh
334.B87 Burma. Myanmar
334.C4 Ceylon. Sri Lanka
334.M53 Middle East
334.M65 Mongolia
Myanmar see QL334.B87
334.N44 Nepal
334.O53 Oman
Geographical distribution
Topographical divisions (Faunas)

Asia
Other regions or countries, A-Z -- Continued
334.P4 Pakistan
334.S28 Saudi Arabia
334.S56 Singapore
Sri Lanka see QL334.C4
(334.T87) Turkmenistan
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Africa
General works
336 By region or country, A-Z
337.A-Z
337.A44 Algeria
337.A5 Angola
337.B44 Benin
337.B68 Botswana. Bechuanaland
337.B8 British East Africa
337.B9 Burkina Faso. Upper Volta
337.B94 Burundi
337.C25 Cameroon
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337.C43 Central Africa
337.C44 Central African Republic
337.C48 Chad
337.C57 Congo (Brazzaville)
337.C58 Congo (Democratic Republic). Zaire
Côte d'Ivoire see QL337.I8
337.D53 Djibouti
337.E25 East Africa
337.E3 Egypt
337.E75 Equatorial Guinea
337.E76 Eritrea
337.E8 Ethiopia
337.F7 French-speaking Equatorial Africa
337.F75 French-speaking West Africa
337.G32 Gabon
337.G34 Gambia
337.G56 Ghana
337.G77 Guinea
337.G8 Guinea-Bissau
337.I8 Ivory Coast. Côte d'Ivoire
337.K3 Kalahari Desert
337.K4 Kenya
337.L46 Lesotho
337.L7 Liberia
337.L72 Libya
337.L83 Luangwa Valley
337.M2 Malagasy Republic. Madagascar
337.M28 Malawi
337.M33 Mali
337.M37 Mauritania
Mauritius see QL337.6.M36
337.M65 Morocco
337.M7 Mozambique
337.N27 Namibia
Geographical distribution
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Africa
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337.N47 Niger
337.N5 Nigeria
337.N55 Nimba, Mount, Region
337.T3 Rhodesia, Northern see QL337.Z3
337.R4 Rhodesia, Southern. Zimbabwe
337.R95 Rwanda
337.S3 Sahara
337.S34 Sao Tome and Principe
337.S44 Senegal
337.S54 Sierra Leone
337.S6 Somalia
337.S65 South Africa
337.S656 South Sudan
337.S66 Southern Africa
337.T27 Tanganyika, Lake
337.S78 Sub-Saharan Africa
337.S8 Sudan
337.S93 Swaziland
337.T7 Togo
337.T84 Tunisia
337.U35 Uganda
337.W4 West Africa
337.W45 Western Sahara
337.Z3 Zambia
337.Z3 Zambwe see QL337.R4

Indian Ocean islands

337.5 General works
337.6.A-Z By island or group of islands, A-Z
337.6.M34 Maldives
337.6.M36 Mauritius
337.6.S49 Seychelles

Australia

338 General works
339.A-Z By state or territory, A-Z
340 New Zealand
  Including adjacent islands

Pacific islands

345.A1 General works
345.A3-Z By individual island or group of islands, A-Z
345.C65 Cook Islands
345.F53 Fiji
345.G2 Galapagos Islands
345.G83 Guam
345.H3 Hawaii
345.K47 Kermadec Islands
345.M3 Marquesas Islands
345.M34 Marshall Islands
345.M53 Micronesia
345.N3 New Caledonia
Geographical distribution

Topographical divisions (Faunas)

Pacific islands

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

New Guinea see QL322.5

345.P35

Palau

Ryukyu Islands see QL325.3

345.T3

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345.T65

Tonga

Arctic regions, Antarctica see QL104+

Tropics see QL109

Classification. Systematics and taxonomy

351

Principles

352

Systems

Nomenclature

353

General works. Principles

354

Nomenclators and checklists

355

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360

Dictionaries and encyclopedias

362

General works, treatises, and textbooks

362.4

Juvenile works

Rare and endangered species

362.45

General works

362.46.A-Z

By region or country, A-Z

362.5

Classification

362.7

Catalogs and collections

362.75

Evolution

362.8

Methods, culture, etc.

362.85

Immunology

362.9

Genetics

363

Anatomy and morphology

363.5

Metamorphosis

363.8

Cytology

364

Physiology

364.15

Reproduction

364.18

Development

   Including larvae

364.2

Behavior

364.3

Feeding and feeds

364.4

Ecology

364.5

Coloniality. Animal colonies

   Class here works on groupings of physically interconnected animals having a common ancestry
   through asexual reproduction

365

Animalcules. Early works on infusoria

Geographical distribution

   For geographical distribution of systematic divisions, see the division, e. g. QL366+, Protozoa

365.3

General works

Physiographic divisions

365.34

Soil

   Aquatic

365.36

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365.363

Marine

365.365

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365.4

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365.44
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365.45
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365.46
  Atlantic Ocean and islands (Table Q3)
365.47
  Europe (Table Q3)
365.48
  Asia (Table Q3)
365.5
  Africa (Table Q3)
365.53
  Indian Ocean and islands (Table Q3)
365.54
  Australia
365.55
  New Zealand
365.56
  Pacific Ocean and islands. Oceania (Table Q3)
365.57
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365.58
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365.6
  Tropics
Protozoa
  Cf. QR251+ Pathogenic protozoa
366
  General works, treatises, and textbooks
366.5
  Classification
Geographical distribution
  For geographical distribution of systematic divisions see QL368.A115+
367
  General works
367.1
  North America (United States and Canada) (Table Q3)
367.2
  Mexico, Central America, and West Indies (Table Q3)
367.3
  South America (Table Q3)
367.4
  Europe (Table Q3)
367.5
  Asia (Table Q3)
367.6
  Africa (Table Q3)
367.7
  Australia
367.75
  New Zealand
367.8
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367.9
  Arctic regions
367.95
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367.96
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368.A115
  Plasmodroma
368.A12
  Mastigophora (Phytomastigia; Zoomastigia). Flagellata
368.A14
  Sarcodina (Rhizopoda; Actinopoda)
368.A16
  Apicomplexa (Sporozoa)
368.A18
  Cnidosporidia
368.A2
  Ciliophora
368.A22
  Ciliata (Holotricha; Spirotricha; Peritricha)
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
368.A335
  Acanthophractida
368.A36
  Aconchulinida
368.A38
  Acrasida
368.A4
  Actinomyxida
368.A44
  Actinophryida
368.A5
  Amoebida
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

368.A57 Apostomatida
368.A63 Arcellinida
368.A66 Archigregarinida
368.A8 Astomatida
368.A85 Athalamida
368.B5 Bicosoecida
368.B55 Blastocystida
368.C4 Centrohelida
368.C48 Chloromonadida
368.C5 Choanoflagellatea. Choanoflagellida (Choanoflagellates)
368.C54 Chonotrichida
368.C57 Chrysonomonadida
368.C59 Coccidia
368.C6 Coccolithophorida
368.C8 Cryptomonadida
368.C85 Ctenostomatida see QL368.O4
368.D4 Desmothoracida
(368.D6) Dinoflagellida
368.D65 Diplomonadida
368.E2 Ebriida
368.E5 Entodiniomorphida
(368.E9) Euglenida
368.E92 Eugregarinida
368.E95 Eumycetosoida
368.F6 Foraminiferida
368.G8 Gregarinida
368.G85 Gromiida
368.G9 Gymnostomatida
368.H33 Haemosporida
368.H34 Haplosporida
368.H4 Helicosporida
368.H5 Heliozoida
368.H53 Heterochlorida. Xanthomonadida
368.H55 Heterotrichida
368.H67 Hymenostomatida
368.H9 Hypermastigida
368.H95 Hypotrichida
368.K5 Infusoria see QL366
368.K5 Kinetoplastida
368.L3 Labyrinthulida
368.L62 Lobosa
368.M5 Microsporida
368.M78 Mycetozoida
368.M8 Myxosporida
368.N4 Neogregarinida
368.O3 Oculosida
368.O4 Odontostomatida. Ctenostomatida
368.O5 Oligotrichida
368.O7 Opalinida
368.O9 Oxynomadida
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Protozoa

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

368.P4
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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
Toxoplasmodia. 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

372.8
Pacific islands (Table Q3)

372.9
Arctic regions

372.95
Antarctica

372.96
Tropics

373.A-Z
Systematic divisions. By class, A-Z
Class here works on species, genera, families and orders
Invertebrates
Porifera (Sponges)
Systematic divisions. By class, A-Z -- Continued
373.C2
   Calcispongiae (Calcarea)
373.D4
   Demospongiae
373.H6
   Hyalospongea (Hexactinellida)
374
   Anatomy and morphology
374.2
   Physiology
Cnidaria
375
   General works, treatises, and textbooks
375.2
   Pictorial works and atlases
375.4
   Popular works
375.6
   Juvenile works
Geographical distribution
   For geographical distribution of systematic divisions see QL377.A+
376
   General works
376.1
   North America (United States and Canada) (Table Q3)
376.2
   Mexico, Central America, and West Indies (Table Q3)
376.3
   South America (Table Q3)
376.4
   Europe (Table Q3)
376.5
   Asia (Table Q3)
376.6
   Africa (Table Q3)
376.7
   Australia
376.75
   New Zealand
376.8
   Pacific islands (Table Q3)
376.9
   Arctic regions
376.95
   Antarctica
376.96
   Tropics
377.A-Z
   Systematic divisions. By class, A-Z
   Anthozoa (Corals)
377.C5
   General works
377.C6
   Alcyonaria
377.C7
   Zoantharia
   Ctenophora see QL380+
377.H9
   Hydrozoa (Hydromedusae; hydroids)
377.S4
   Scyphozoa (Scyphomedusae; jellyfish)
378
   Anatomy and morphology
378.2
   Physiology
379
   Zoophyta (old sense)
Ctenophora
380
   General works, treatises, and textbooks
Geographical distribution
   For geographical distribution of systematic divisions see QL380.5.A+
380.3
   General works
380.32
   North America (United States and Canada) (Table Q3)
380.35
   Mexico, Central America, and West Indies (Table Q3)
380.37
   South America (Table Q3)
380.4
   Europe (Table Q3)
380.42
   Asia (Table Q3)
380.44
   Africa (Table Q3)
380.46
   Australasia and Indo-Pacific islands (Table Q3)
380.48
   Polar regions
380.49
   Tropics
380.5.A-Z
   Systematic divisions. By classes and orders
   Class works on species, genera, and families by order
380.5.N8-.N83
   Nuda
Invertebrates
Ctenophora
Systematic divisions. By classes and orders
Nuda -- Continued
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
  Platycnena
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
384.A-Z
  Systematic divisions. By class, A-Z
    Class works on species, genera, families, and orders by class
384.A8
  Asteroidea (Starfishes)
384.C8
  Crinoidea
384.E2
  Echinoidea (Sea urchins)
384.H7
  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
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)
Invertebrates
Worms and other vermiform invertebrates
Geographical distribution -- Continued
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.A2 Acanthocephala (Spiny-headed worms)
391.A6 Annelida (Segmented worms)
            Cestoda see QL391.P7
391.C6 Chaetognatha (Arrowworms)
391.E2 Echiura
391.G2 Gastrotricha
            Gephyrea (Gastrotricha) see QL391.E2
            Gephyrea (Sipuncula) see QL391.S5
391.G63 Gnathostomulida
            Hirudinea see QL391.A6
391.K5 Kinorhyncha (Echinodera)
391.L67 Loricifera
391.M4 Mesozoa
            Including Orthonectida and Rhombozoa
391.N4 Nematoda (Roundworms)
391.N5 Nematomorpha (Gordiacea; horsehair worms)
391.N6 Nemertina (Rynchocoela; ribbonworms)
            Oligochaeta see QL391.A6
            Onychophora see QL448+
            Orthonectida see QL391.M4
            Pentastomida see QL447.3
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
395 Brachiopoda (Lamp shells)
            General works, treatises, and textbooks
            395.1 Classification
            395.15 Catalogs and collectors
Invertebrates

Brachiopoda (Lamp shells) -- Continued

Geographical distribution

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

395.2
North America (United States and Canada) (Table Q3)

395.23
Mexico, Central America, and West Indies (Table Q3)

395.25
South America (Table Q3)

395.3
Europe (Table Q3)

395.4
Asia (Table Q3)

395.5
Africa (Table Q3)

395.6
Australia

395.63
New Zealand

395.67
Pacific islands (Table Q3)

395.7
Arctic regions

395.75
Antarctica

395.76
Tropics

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

Class here works on species, genera, and families

For works on higher taxa, see QL395+

395.8.C7
Craniidae

395.8.L7
Lingulidae

395.8.R5
Rhyynchonellidae

395.8.T39
Terebraliidae

395.8.T4
Terebratulidae

395.9
Anatomy and morphology

395.95
Physiology

Bryozoa (Ectoprocta; Polyzoa)

396
General works, treatises, and textbooks

396.5
Classification

396.7
Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL398.A+

397
General works

397.1
North America (United States and Canada) (Table Q3)

397.2
Mexico, Central America, and West Indies (Table Q3)

397.3
South America (Table Q3)

397.4
Europe (Table Q3)

397.5
Asia (Table Q3)

397.6
Africa (Table Q3)

397.7
Australia

397.75
New Zealand

397.8
Pacific islands (Table Q3)

397.9
Arctic regions

397.95
Antarctica

397.96
Tropics

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

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

Class higher taxa in+

398.C5
Cheilostomata

398.C8
Ctenostomata

398.C9
Cyclostomata

Ectoprocta see QL396+

Entoprocta see QL400+

398.L6
Lophopoda

399
Anatomy and morphology

399.2
Physiology
Invertebrates -- Continued

Entoprocta (Callysszoza; 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
  General works

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
  407
    General works
    407.5
      Freshwater
    Marine
      For mollusks of particular coasts and islands see QL411+

408
  General works

408.2
  Atlantic Ocean
    Cf. QL424.5 Atlantic islands

408.5
  Pacific Ocean
    Cf. QL428.5 Pacific islands

408.7
  Indian Ocean

Topographical divisions
  North America
  411
    General works
  413
    Canada
Invertebrates
  Mollusca
  Geographical distribution
  Topographical divisions
  North America -- Continued
    United States
    Atlantic Coast
    Pacific Coast
    Pacific islands
      see QL428.5
    Gulf Coast
  Latin America
    General works
    Mexico
    Central America (Table Q3)
    West Indies (Table Q3)
    South America (Table Q3)
    Atlantic islands (Table Q3)
    Europe (Table Q3)
    Asia (Table Q3)
    Africa (Table Q3)
    Australia
    New Zealand
    Pacific islands (Table Q3)
    Arctic regions
    Antarctica
  Tropics
  Systematic divisions
    Aplacophora (Solenogasters)
      General works and orders
      Proneomeniidae
    Polyplacophora (Chitons)
      General works and orders
      By family, A-Z
      Acanthochitonidae
      Chitonidae
      Ischnochitonidae
      Mopaliidae
    Monoplacophora
    Cephalopoda
      General works and orders
      By family, A-Z
      Architeuthidae
      Bathyteuthidae
      Cranchiidae
      Cycloteuthidae
      Enoplotheuthidae
      Gonatidae
      Joubiniteuthidae
      Loliginidae
      Nautilidae
      Octopodidae (Octopuses)
      Ommastrephidae
Invertebrates
Mollusca
Systematic divisions
Cephalopoda
By family, A-Z -- Continued

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
Abyssochrysidae
430.5.A18
Abysinellidae
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
Ampullariidae
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.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
Calyptroaeidae
430.5.C25
Camaenidae
430.5.C26
Cancellariidae
430.5.C3
Cassidae
430.5.C35
Cavolinidae
430.5.C38
Cerionidae
430.5.C4
Cerithiidae
430.5.C43
Cerithiopsidae
430.5.C49
Chilinidae
(430.5.C53)
Chondropomatidae
see QL430.5.A65
430.5.C56
Chromodorididae
430.5.C57
Clausiliidae
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

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
Dolabridae
430.5.D6
Dorididae
430.5.E45
Ellobiidae
430.5.E48
Elysiidae
430.5.E5
Endodontidae
(430.5.E55)
Entoconchidae
see QL430.5.E9
430.5.E6
Epitoniidae
430.5.E9
Eulimidae
430.5.F2
Fasciolariidae
430.5.F53
Ficidae
430.5.F57
Fissurellidae
430.5.F58
Flabellinidae
430.5.G34
Gadiniidae
430.5.H34
Halocardiidae (Abalones)
430.5.H37
Heteroniidae
430.5.H4
Helicidae
430.5.H45
Helicinidae
430.5.H46
Helmintodentatae
Hermaeidae see QL430.5.S75
430.5.H9
Hydrobiidae
430.5.J3
Janellidae
(430.5.J36)
Janthinidae
see QL430.5.E6
430.5.J8
Juliidae
(430.5.L2)
Lamellariidae
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
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
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.N35  Naticidae
430.5.N5   Neritidae
430.5.O5   Olividae
430.5.O73  Oreohelicidae
430.5.O78  Orthalicidae
430.5.P15  Partulidae
430.5.P18  Patellidae
430.5.P2   Personidae
430.5.P23  Phasianellidae
430.5.P25  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   Pleuromeridae
430.5.P6   Polygyridae
430.5.P63  Pomatiidae
430.5.P64  Pomatiopsidae
430.5.P68  Potamididae
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  Rissoidea
430.5.S25  Scalaridae
430.5.S56  Siphonariidae
430.5.S65  Spiraxidae
(430.5.S74)  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  Tethydidae
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
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

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) 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)

430.6    General works and orders
430.7.A-Z By family, A-Z
430.7.A34 Amblemidae
430.7.A4   Anatiniidae
430.7.A72  Arcidae
430.7.A74  Arcticidae
430.7.A8   Astartidae
430.7.C2   Cardiidae
430.7.C24  Carditidae
430.7.C53  Chamidae
430.7.C67  Corbiculidae
430.7.C69  Corbulidae
430.7.C8   Crassatellidae
            Cyrenidae see QL430.7.C67
430.7.D55  Dimyidae
430.7.D65  Donacidae
430.7.D8   Dreisseniidae
430.7.G23  Gastrochaenidae
430.7.G55  Glossidae
430.7.G78  Gryphaeidae
430.7.H53  Hiattellidae
430.7.H87  Hyriidae
430.7.L35  Lamellicardiidae
430.7.L4   Ledidae
430.7.L5   Limidae
430.7.L8   Lucinidae
430.7.M3   Mactridae
430.7.M37  Margaritiferidae
430.7.M85  Mycetopodidae
430.7.M9   Myidae
430.7.M95  Mytilidae
Invertebrates
Mollusca
Systematic divisions
Bivalvia (Lamellibranchia; pelecypoda; clams)
By family, A-Z -- Continued

430.7.N63  Noetiidae
430.7.N85  Nuculanidae
430.7.N9   Nuculidae
430.7.O9   Ostreidae (Oysters)
430.7.P3   Pectinidae
430.7.P48  Philobryidae
430.7.P5   Pholadidae
430.7.P56  Pinnidae
(430.7.P59) Pisidiidae
        see QL430.7.S65
430.7.P7   Pristiglomidae
430.7.P75  Psammobiidae
430.7.P77  Pteriidae (Pearl oysters)
430.7.S43  Semelidae
430.7.S5   Siliculidae
430.7.S58  Solemyidae
430.7.S6   Solenidae (Razor clams)
430.7.S65  Sphaeriidae
430.7.S68  Spondylidae
430.7.T3   Tellinidae
430.7.T4   Teredinidae
430.7.T47  Thracidae
430.7.T55  Tindariidae
430.7.T7   Tridacnidae
430.7.U6   Unionidae
430.7.V5   Veneridae
430.8      Scaphopoda (Tusk shells)
431       Anatomy and morphology
431.2     Physiology
431.3     Reproduction and spawning
431.4     Behavior
432       Miscellany and curiosa

Arthropoda
434.A1    Periodicals, societies, congresses, serial publications
434.A3-Z  General works, treatises, and textbooks
434.13    Pictorial works and atlases
434.14    Popular works
434.15    Juvenile works
434.2     Classification
434.3     Catalogs and collections
434.35    Evolution. Speciation
434.4     Study and teaching. Research
434.45    Poisonous arthropods. Dangerous arthropods
Geographical distribution
        For geographical distribution of systematic divisions, see the division below
434.5     General works
434.52    North America (United States and Canada) (Table Q3)
434.53    Mexico, Central America, and West Indies (Table Q3)
434.54    South America (Table Q3)
434.55    Europe (Table Q3)
434.56    Asia (Table Q3)
Invertebrates
Arthropoda
Geographical distribution -- Continued
434.57  Africa (Table Q3)
434.58  Australasia and Indo-Pacific islands (Table Q3)
434.59  Polar regions
434.6  Tropics
434.7  Anatomy and morphology
434.715  Cytology
434.72  Physiology
434.8  Behavior
Crustacea
435.A1  Periodicals, societies, congresses, serial publications
435.A3-Z  General works, treatises, and textbooks
436  Pictorial works and atlases
437  Popular works
437.2  Juvenile works
438  Classification
438.2  Catalogs and collections
438.5  Evolution. Phylogeny
Geographical distribution
For geographical distribution of systematic divisions see QL444.A+
441  General works
441.1  North America (United States and Canada) (Table Q3)
441.2  Mexico, Central America, and West Indies (Table Q3)
441.3  South America (Table Q3)
441.4  Europe (Table Q3)
441.5  Asia (Table Q3)
441.6  Africa (Table Q3)
441.7  Australia
441.75  New Zealand
441.8  Pacific islands (Table Q3)
441.9  Arctic regions
441.95  Antarctica
441.96  Tropics
Class here works on species, genera, and families by order
Branchiopoda
444.B8  General works
444.B815  Anostraca (Fairy shrimps)
444.B83  Cladocera (Water fleas)
444.B834  Conchostraca (Clam shrimps)
444.B86  Notostraca (Tadpole shrimps)
444.B9  Branchiura (Fish lice)
444.C4  Cephalocarida
Cirripedia
444.C5  General works
444.C52  Acrothoracica
444.C527  Ascothoracica
444.C57  Rhizocephala
444.C58  Thoracica (Barnacles)
Copepoda
444.C7  General works
444.C72  Calanoida
(444.C722)  Caligoida
see QL444.C79
Invertebrates
Arthropoda
Crustacea

Systematic divisions. By subclasses and orders, A-Z
Copepoda -- Continued

444.C73
   Cyclopoida
444.C74
   Harpacticoida
444.C75
   Lernaeopodoida
444.C756
   Monstrilloida
444.C76
   Notodelphyoida
444.C78
   Poecilostomatoida
444.C79
   Siphonostomatoida

Entomostraca see QL435+

Malacostraca

444.M3
   General works
444.M315
   Amphipoda (Sand hoppers; whale lice)
444.M317
   Anaspidacea
444.M32
   Bathynellacea
444.M328
   Cumacea
444.M33
   Decapoda (Shrimps; lobsters; crabs)
444.M338
   Euphausiacea
444.M34
   Isopoda (Pill bugs; wood lice)
444.M347
   Leptostraca
444.M35
   Mysidacea (Opossum shrimps)
444.M37
   Spelaeogriphacea
444.M375
   Stomatopoda
444.M378
   Stygocaridacea
444.M38
   Tanaidacea
444.M384
   Thermosbaenacea
444.M9
   Mystacocarida
   Ostracoda (Seed shrimps)

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

445
   Anatomy and morphology
445.2
   Physiology
447
   Pycnogonida (Pantopoda)
447.3
   Pentastomida (Linguatulida; tongue worms)
447.5
   Tardigrada (Water bears)
447.7
   Merostomata (Xiphosura)
   Onychophora (Velvet worms)

448
   General works

   Geographical distribution
   For geographical distribution of systematic divisions see QL448.5-.55

448.3
   General works
448.32
   North America (United States, Canada, and Greenland) (Table Q3)
448.35
   Mexico, Central America, and West Indies (Table Q3)
448.37
   South America (Table Q3)
448.4
   Europe (Table Q3)
448.42
   Atlantic islands (Table Q3)
448.43
   Asia (Table Q3)
448.44
   Africa (Table Q3)
448.45
   Indian Ocean islands (Table Q3)
448.46
   Australasia (Australia, New Zealand, New Guinea, and neighboring islands) (Table Q3)
Invertebrates
Arthropoda

Onychophora (Velvet worms)
Geographical distribution -- Continued

448.47
Pacific islands (Table Q3)
Polar regions

448.48
General works

448.483
Arctic regions

448.485
Antarctica

448.49
Tropics

Systematic divisions
Class here works on species, genera, and families by family; higher taxa by class

Udeonychophora

448.5
General works and orders

448.55.A-Z
By family, A-Z

448.55.P47
Peripatidae

448.55.P48
Peripatopsidae

Myriapoda

449
General works, treatises, and textbooks

Geographical distribution
For geographical distribution of systematic divisions see QL449.5+

449.3
General works

449.32
North America (United States and Canada) (Table Q3)

449.35
Mexico, Central America, and West Indies (Table Q3)

449.37
South America (Table Q3)

449.4
Europe (Table Q3)

449.42
Asia (Table Q3)

449.44
Africa (Table Q3)

449.46
Australasia and Indo-Pacific islands (Table Q3)

449.48
Polar regions

449.49
Tropics

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

Chilopoda (Centipedes)

449.5
General works and orders

449.55.A-Z
By family, A-Z

449.55.C4
Ceratothoracidae

449.55.C7
Craterostigmidae

449.55.C78
Cryptopidae

449.55.D5
Dignathodontidae

449.55.E8
Ethopolyidae

449.55.G4
Geophilidae

449.55.G66
Gonibregmatidae

449.55.G68
Gosibiidae

449.55.H4
Hericopiidae

449.55.H5
Himantariidae

449.55.L5
Lithobiidae

449.55.M4
Mecistocephalidae

449.55.N4
Neogeophilidae

449.55.O7
Oryidae

449.55.S25
Schendylidae

449.55.S3
Scolopendridae

449.55.S37
Scutigeridae

449.55.S63
Sogonidae

449.55.S66
Sonophilidae

449.55.W3
Watobiidae
Invertebrates
Arthropoda
Myriapoda
Systematic divisions -- Continued
Diplopoda (Millipedes)

449.6 General works and orders
449.65.A-Z By family, A-Z
449.65.A6 Andrognathidae
449.65.A8 Atopetholidae
449.65.B4 Blaniulidae
449.65.C24 Callipodidae
449.65.C25 Cambalidae
449.65.C28 Caseyidae
449.65.C37 Chelodesmidae
449.65.C4 Chordeumidae
449.65.C5 Cleidogonidae
449.65.C6 Conotylidae
449.65.C72 Craspedosomidae
449.65.C79 Cryptodesmidae
449.65.E87 Eurymerodesmidae
449.65.E878 Euryuridae
449.65.G4 Gervaisiidae
449.65.G5 Glomeridae
449.65.G53 Glomeridesmidae
449.65.H37 Harpagophoridae
449.65.J8 Julidae
449.65.L4 Leioderidae
449.65.L9 Lysiopetalidae
449.65.N4 Nearctodesmidae
449.65.O6 Oniscodesmidae
449.65.O95 Oxydesmidae
449.65.P18 Pachybolidae
449.65.P22 Paeromopidae
449.65.P27 Paradoxsomatidae
449.65.P273 Paraiulidae
449.65.P42 Platydessidae
449.65.P427 Platyrhacidae
449.65.P64 Polydesmidae
449.65.P648 Polyxenidae
449.65.P649 Polyzoniidae
449.65.R4 Rhinocricidae
449.65.S56 Siphoniliidae
449.65.S565 Siphonophoridae
449.65.S64 Sphaeriodesmidae
449.65.S645 Sphaerotheridae
449.65.S65 Spirobolidae
449.65.S655 Spirostreptidae
449.65.S88 Strongylosomesidae see QL449.65.P27
449.65.S95 Styloidesmidae
449.65.S95 Synxenidae
449.65.T56 Tingupidae
449.65.T75 Trichopolydesmidae
449.65.V34 Vanhoeffiidae
449.65.X9 Xystodesmidae
Pauropoda
449.7 General works
Invertebrates
   Arthropoda
      Myriapoda
         Systematic divisions
            Pauropoda -- Continued
            449.75.A-Z
               By family, A-Z
            449.75.B7
               Brachypauropodidae
            449.75.E8
               Eurypauropodidae
            449.75.P3
               Pauropodidae
         Symphyla
            449.8
               General works
            449.85.A-Z
               By family, A-Z
            449.85.G4
               Geophilellidae
            449.85.S25
               Scolopendrellidae
            449.85.S3
               Scutigerellidae
            449.9
               Anatomy and morphology
            449.92
               Physiology
   Arachnida (Scorpions; spiders; mites; etc.)
      451
         General works, treatises, and textbooks
      452
         Popular works
      452.2
         Juvenile works
      452.8
         Classification
      453
         Catalogs and collections
         Geographical distribution
            For geographical distribution of systematic divisions see QL458+
            453.1
               North America (United States and Canada) (Table Q3)
            453.2
               Mexico, Central America, and West Indies (Table Q3)
            453.3
               South America (Table Q3)
            453.35
               Atlantic islands (Table Q3)
            453.4
               Europe (Table Q3)
            453.5
               Asia (Table Q3)
            453.6
               Africa (Table Q3)
               Australasia
            453.68
               General works
            453.7
               Australia
            453.75
               New Zealand
            453.8
               Pacific islands (Table Q3)
            453.9
               Arctic regions
            453.95
               Antarctica
            453.96
               Tropics
      Systematic divisions
         Acari (Acarina). Mites
            458
               General works
            458.15.A-Z
               By order, A-Z
            458.15.A33
               Acariformes
               Notostigmata see QL458.15.O65
            458.15.O65
               Opilioacariformes
            458.15.P37
               Parasitiformes
            458.2.A-Z
               By family, A-Z
            458.2.A3
               Acaridae
            458.2.A44
               Alloptidae
            458.2.A45
               Ameronothridae
            458.2.A5
               Analgidae
            458.2.A58
               Anystidae
            458.2.A74
               Argasidae
            458.2.A77
               Arrenuridae
Invertebrates
Arthropoda
Arachnida (Scorpions; spiders; mites; etc.)
Systematic divisions
Acarina (Acarina). Mites
By family, A-Z -- Continued

458.2.B4
Bdellidae
458.2.B7
Brachychthoniidae
458.2.C28
Caeculidae
458.2.C3
Carpoglyphidae
458.2.C37
Cercomegistidae
458.2.C39
Chaetodactylidae
458.2.C4
Cheyletidae
458.2.C8
Cunaxidae
458.2.C9
Cytoditidae
458.2.D45
Demodicidae
458.2.D47
Dermanyssidae
458.2.D475
Dermoglyphidae
458.2.D56
Diplilomiopidae
458.2.E45
Echimyopodidae
458.2.E6
Epidermoptidae
458.2.E73
Eremaeidae
458.2.E75
Eriophyidae
458.2.E78
Erythraeidae
458.2.E8
Eupodidae
458.2.E84
Eustathiidae
458.2.E9
Eylaidae
458.2.F3
Falculiferidae
458.2.G34
Galamnidae
Gamasidae see QL458.2.P3
458.2.G4
Glycyphagidae
458.2.H3
Halacaridae
458.2.H38
Hermanniidae
458.2.H4
Heterocheylidae
458.2.H9
Hydrachnidae
458.2.H98
Hydryphantidae
458.2.I9
Ixorididae
458.2.K5
Knemidokoptidae
458.2.L3
Labidocarpidae
458.2.L33
Laelapidae
458.2.L44
Leeuwenhoekiidae
458.2.L54
Limnocharidae
458.2.L58
Listrophoridae
458.2.L67
Lordalycidae
458.2.M3
Macronyssidae
458.2.M53
Microtrombidiidae
458.2.M9
Myobiidae
458.2.M93
Myocoptidae
458.2.N67
Nothridae
458.2.O74
Oribatidae
458.2.P3
Parasitidae
458.2.P35
Penthaleidae
458.2.P37
Phytophidae
458.2.P4
Phytoseiidae
458.2.P44
Pionidae
458.2.P6
Podapolipodidae
Invertebrates
Arthropoda
Arachnida (Scorpions; spiders; mites; etc.)
Systematic divisions
Acari (Acarina). Mites
By family, A-Z -- Continued

458.2.P65 Pontarachnidae
458.2.P74 Proctophyllodidae
458.2.P8 Psoroptidae
458.2.P85 Pterolichidae
458.2.P87 Pterygosomatidae
458.2.P9 Pyemotidae
458.2.P95 Pyroglyphidae
458.2.R36 Raphignathidae
458.2.R45 Rhagidiidae
458.2.R47 Rhodacaridae
458.2.R66 Rosensteiniidae
458.2.S25 Sarcoptidae
458.2.S3 Scutacaridae
458.2.S7 Sperchonidae
458.2.S75 Spinturnicidae
458.2.S8 Stigmaeidae
458.2.S89 Syringobiidae
458.2.S9 Syringophilidae
458.2.T3 Tarsonemidae
458.2.T36 Tenuipalpidae
458.2.T4 Tetranychidae (Spider mites)
458.2.T5 Thyasidae
458.2.T7 Trachytidae
458.2.T75 Trombiculidae
458.2.T76 Trombidiidae
458.2.U5 Unionicolidae
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<td>458.52.T76</td>
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Cf. SB818+ Economic entomology

461
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462
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462.3
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462.4
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462.5
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463
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464
Field and laboratory manuals

465
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  467.2  Juvenile works
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  468  Classification. Nomenclature
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  468.4  Entomology as a profession. Vocational guidance
  468.5  Study and teaching. Research
  468.7  Evolution. Phylogeny. Speciation
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496 Behavior. Social life. Instinct
496.12 Parasitism
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511  General works, treatises, and textbooks
    Geographical distribution
      For geographical distribution of systematic divisions see QL513.A+

512  General works
512.1  North America (United States and Canada) (Table Q3)
512.2  Mexico, Central America, and West Indies (Table Q3)
512.3  South America (Table Q3)
512.4  Europe (Table Q3)
512.5  Asia (Table Q3)
512.6  Africa (Table Q3)
512.7  Australia
512.75  New Zealand
512.8  Pacific islands (Table Q3)
512.9  Arctic regions
512.95  Antarctica
Invertebrates
  Arthropoda
    Insects
      Neuroptera
        Geographical distribution -- Continued

512.96
513.A6 Apochrysidae
513.A7 Ascalaphidae (Owlflies)
513.B4 Berothidae (Beaded lacewings)
513.C5 Chrysopidae (Lacewings)
513.C65 Coniopterygidae (Dusty-wings)
513.C7 Corydalidae (Dobsonflies)
      see QL514.7.C67
513.D5 Dilaridae (Pleasing lacewings)
      Embiidae see QL539+
      Ephemeroptera see QL505+
513.H5 Hemerobiidae (Brown lacewings)
513.I5 Inocelliidae
513.I8 Isopera see QL529+
513.I9 Ithonidae
513.M3 Mantispidae (Mantidflies)
513.M86 Myiactidyidae
513.M9 Myrmeleontidae (Antlions)
513.N4 Nemopteridae
513.N9 Nymphidae
513.O8 Odonata see QL520+
513.P6 Planipennia see QL511+
      Plecoptera see QL530+
513.P8 Psychopsidae
(513.R3) Raphidiidae (Snakeflies)
      see QL514.9.R35
(513.S6) Sialidae (Alderflies)
      see QL514.7.S52
513.S65 Sisyridae (Spongillaflies)
513.S8 Stiltbopyrgidae
513.S9 Sympherobiidae
      Termitidae see QL529+
513.T7 Trichomatisidae
514 Anatomy and morphology
514.2 Physiology
514.4 Megaloptera
      General works, treatises, and textbooks
      Geographical distribution
        For geographical distribution of systematic divisions see QL514.7.A+
514.5 General works
514.6 North America (United States and Canada) (Table Q3)
514.62 Mexico, Central America, and West Indies (Table Q3)
514.63 South America (Table Q3)
514.64 Europe (Table Q3)
514.65 Asia (Table Q3)
514.66 Africa (Table Q3)
514.67 Australasia and Indo-Pacific islands (Table Q3)
Invertebrates
Arthropoda
Insects
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Geographical distribution -- Continued

514.68
Polar regions
514.69
Tropics
514.7.A-Z
Systematic divisions. By family, A-Z
514.7.C67
Corydalidae (Dobsonflies)
514.7.S52
Sialidae (Alderflies)
514.8
Anatomy and morphology
514.82
Physiology

Raphidioptera
514.86
General works, treatises, and textbooks
Geographical distribution
For geographical distribution of systematic divisions see QL514.9.A+
514.88
General works
514.8815
North America (United States and Canada) (Table Q3)
514.882
Mexico, Central America, and West Indies (Table Q3)
514.883
South America (Table Q3)
514.884
Europe (Table Q3)
514.885
Asia (Table Q3)
514.886
Africa (Table Q3)
514.887
Australasia and Indo-Pacific islands (Table Q3)
514.888
Polar regions
514.889
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514.9.A-Z
Systematic divisions. By family, A-Z
514.9.R35
Raphidiidae (Snakeflies)
514.95
Anatomy and morphology
514.96
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Psocoptera (Corrodentia)
515
General works
515.2.A-Z
Systematic divisions, A-Z
515.2.P4
Peripsocidae
515.2.P73
Pseudocaecillidae
515.5
Zoraptera

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

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

518.B7  Brachycentridae
518.C3  Calamoceratidae
518.G6  Goeridae
518.H4  Helicopsychidae
518.H94 Hydropsychidae
518.H95 Hydroptilidae
518.L48 Leptoceridae
518.L6  Limnephilidae
518.M2  Molannidae
518.O4  Odontoceridae
518.P45 Philopotamidae
518.P47 Phryganeidae
518.P6  Polycentropodidae
518.P8  Psychomyiidae
518.R4  Rhyacophilidae
518.S4  Sericostomatidae
518.X5  Xiphocentronidae

519 Anatomy and morphology
519.2 Physiology

Odonata (Dragonflies, etc.)

520 General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL520.3.A+

520.15 General works
520.2  North America (United States and Canada) (Table Q3)
520.22 Mexico, Central America, and West Indies (Table Q3)
520.23 South America (Table Q3)
520.24 Europe (Table Q3)
520.25 Asia (Table Q3)
520.26 Africa (Table Q3)
520.27 Australasia and Indo-Pacific islands (Table Q3)
520.28 Polar regions
520.29 Tropics
520.3.A-Z Systematic divisions. By family, A-Z
520.3.A4 Aeshnidae (Darners)
520.3.A5 Agrionidae
520.3.A6 Amphipterygidae
520.3.C3 Calopterygidae
520.3.C4 Chlorocyphidae
520.3.C64 Coenagrionidae (Narrow-winged damselflies)
520.3.C67 Cordulegastridae (Biddies)
520.3.C68 Corduliidae (Green-eyed skimmers)
520.3.E6 Epallagidae
520.3.E65 Epiophlebiidae
520.3.G6 Gomphidae (Clubtails)
520.3.H44 Heliocharitidae
520.3.H45 Hemiphrlebiidae
520.3.L45 Lestidae (Spread-winged damselflies)
520.3.L46 Lestoideidae
520.3.L6 Libellulidae (Skimmers)
520.3.M4 Megapodagrionidae
Invertebrates
  Arthropoda
    Insects
      Odonata (Dragonflies, etc.)
        Systematic divisions. By family, A-Z -- Continued

520.3.P4  Petaluridae (Graybacks)
520.3.P53  Platycnemididae
520.3.P58  Platystictidae
520.3.P6  Polythoridae
520.3.P7  Protoneuridae
520.3.P8  Pseudostigmatidae
520.3.S9  Synlestidae
520.4  Anatomy and morphology
520.42  Physiology

Hemiptera (Heteroptera; bugs)

521  General works, treatises, and textbooks
  Geographical distribution
    For geographical distribution of systematic divisions see QL523.A+

522  General works
522.1  North America (United States and Canada) (Table Q3)
522.2  Mexico, Central America, and West Indies (Table Q3)
522.3  South America (Table Q3)
522.4  Europe (Table Q3)
522.5  Asia (Table Q3)
522.6  Africa (Table Q3)
522.7  Australia
522.75  New Zealand
522.8  Pacific islands (Table Q3)
522.9  Arctic regions
522.95  Antarctica
522.96  Tropics
523.A14  Acanthosomatidae
523.A35  Aepophilidae
523.A4  Alydidae
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  Colobothristidae
523.C7  Coreidae
523.C75  Corimelaenidae
523.C9  Corixidae (Water boatmen)
523.C9  Cydnidae (Burrower bugs)
523.D5  Dipsocoridae
523.D74  Drepanosiphidae
523.D9  Dysodiidae
523.E65  Enicocephalidae
523.G4  Gerridae (Water striders)
523.H4  Hebridae
523.H44  Helotrepheidae
  Henicocephalidae see QL523.E65
  Heteroptera see QL521+
  Homoptera see QL525+
Invertebrates
  Arthropoda
    Insects
      Hemiptera (Heteroptera; bugs)
      Systematic divisions. By family, A-Z -- Continued

523.H93  Hydrometridae
523.H96  Hyocephalidae
523.I83  Isodermidae
523.I85  Isometopidae
523.J6   Joppeicidae
523.L45  Leotichidae
523.L46  Leptopodidae
523.L9   Lygaeidae
523.M3   Macroveliidae
523.M4   Mesoveliiidae
523.M47  Microphysidae
523.M5   Miridae (Plantbugs)
523.N3   Nabidae (Damsel bugs)
523.N4   Naucoridae (Creeping waterbugs)
523.N46  Neididae
523.N5   Nipidae (Water scorpions)
523.N53  Nerthridae
523.N6   Notonectidae (Back swimmers)
523.O3   Ochteridae
523.P5   Pentatomidae (Stinkbugs)
523.P53  Phymatidae (Ambushbugs)
523.P55  Piesmidae
523.P57  Plataspidae
523.P576 Ploiariidae
523.P62  Podopidae
523.P64  Polycenetnidae
523.P9   Pyrrhocorididae
523.R4   Reduviidae (Assassin bugs)
523.R5   Rhopalidae
523.S25  Saldidae (Shorebugs)
523.S3   Schizopteridae
523.S4   Scutelleridae
523.T3   Tahitocoridae
523.T4   Termatophylidae
523.T43  Termitaphididae
523.T48  Thaumastotheriidae
523.T5   Tingidae (Lacebugs)
523.V45  Veliidae
523.V46  Velocepediidae
524     Anatomy and morphology
      524.2  Physiology
    Homoptera (Aphids; cicadas, etc.)
      525  General works, treatises, and textbooks
        Geographical distribution
          For geographical distribution of systematic divisions see QL527.A+
Invertebrates
  Arthropoda
  Insects
  Homoptera (Aphids; cicadas, etc.)

Geographical distribution -- Continued

526.6  Africa (Table Q3)
526.7  Australia
526.75  New Zealand
526.8  Pacific islands (Table Q3)
526.9  Arctic regions
526.95  Antarctica
526.96  Tropics


527.A2  Acanaloniiidae
527.A25  Achilidae
527.A259  Achiliixidae
527.A3  Adelgidae
527.A4  Aethialoniidae
527.A44  Agallidae
  Aleurodidae see QL527.A5
  Aleyrodoidea (Whiteflies)
527.A5  Aphididae (Aphids or plant lice)
527.A647  Aphrophoridae
527.A65  Apiomorphidae
  Areopodidae see QL527.D44
527.A8  Asterolecaniidae (Pit scales)
527.B9  Bythoscopidae
527.C35  Callaphididae
527.C4  Cercopidae (Spittlebugs)
527.C43  Cerococcidae
  Cermidae see QL527.P88
527.C49  Cicadellidae (Leafhoppers)
527.C5  Cicadidae (Cicadas)
527.C55  Cixiidae
527.C58  Clastopteridae
527.C6  Coccidae (Soft scales)
527.C62  Coelostomidiidae
527.C65  Conchaspidae
527.C9  Cylindrococcidae
527.D3  Dactylopiidae (Cochineal insects)
527.D44  Delphacidae
527.D47  Derbidae
527.D5  Diaspididae (Armored scales)
527.D53  Dictyopharidae
527.E73  Eriococcidae
527.E78  Eriosomatidae
527.E9  Euacanthidae
527.E97  Eurybrachidae
527.F4  Flatidae
527.F9  Fulgoridae
  Gyponidae see QL527.C49
527.I8  Issidae
  Jassidae see QL527.C49
527.K4  Kermesidae
527.K44  Kerridae (Lac scales)
527.K5  Kinnaridae
Invertebrates
  Arthropoda
  Insects
  Homoptera (Aphids; cicadas, etc.)
  Systematic divisions. By family, A-Z -- Continued

527.K6
  Koebeliidae

(527.L4)
  Lacciferidae see QL527.K44

527.L44
  Lecaniidae
  see QL527.C6

527.L6
  Ledididae

527.M3
  Machaerotidae

527.M32
  Macropsidae

527.M37
  Margarodidae

527.M4
  Meenoplidae

527.M45
  Membracidae (Treehoppers)
  Monophlebidae see QL527.M37

527.N5
  Nirvanidae

527.N6
  Nogodinidae

527.O7
  Ortheziidae (Ensign scales)

527.P3
  Paropiidae

527.P44
  Peloridiidae

527.P45
  Penthimiidae

527.P53
  Phenacoleachiidae

527.P56
  Phylloxeridae

527.P6
  Pleidae

527.P83
  Pseudococcidae (Mealybugs)

527.P88
  Psyllidae (Jumping plant lice)

527.P93
  Putoidae

527.P96
  Pythamidae

527.R5
  Riciiniidae

527.S5
  Signoretiidae

527.S8
  Stenocotidae
  Tachardiidae see QL527.K44
  Tettigellidae see QL527.C49

527.T43
  Tettigometridae

527.T5
  Thaumastoscopidae

527.T6
  Tomaspidae

527.T7
  Tropiduchidae

527.U4
  Ulopidae

528
  Anatomy and morphology

528.2
  Physiology

529
  Isoptera (Termites)
  General works, treatises, and textbooks
  Geographical distribution
    For geographical distribution of systematic divisions see QL529.3.A+

529.15
  General works

529.2
  North America (United States and Canada) (Table Q3)

529.22
  Mexico, Central America, and West Indies (Table Q3)

529.23
  South America (Table Q3)

529.24
  Europe (Table Q3)

529.25
  Asia (Table Q3)

529.26
  Africa (Table Q3)

529.27
  Australasia and Indo-Pacific islands (Table Q3)

529.28
  Polar regions

529.29
  Tropics
Invertebrates

Arthropoda

Insects

Isoptera (Termites) -- Continued

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

529.3.H6  
Hodotermitidae

529.3.K35  
Kalotermitidae

529.3.M3  
Mastotermitidae

529.3.R4  
Rhinotermitidae

529.3.S47  
Serritermitidae

529.3.T4  
Termitidae

529.3.T5  
Termopsidae

529.4  
Anatomy and morphology

529.42  
Physiology

Plecoptera (Stoneflies)

530  
General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL530.3.A+

530.15  
General works

530.2  
North America (United States and Canada) (Table Q3)

530.22  
Mexico, Central America, and West Indies (Table Q3)

530.23  
South America (Table Q3)

530.24  
Europe (Table Q3)

530.25  
Asia (Table Q3)

530.26  
Africa (Table Q3)

530.27  
Australasia and Indo-Pacific islands (Table Q3)

530.28  
Polar regions

530.29  
Tropics

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

530.3.A9  
Austroperlidae

530.3.C3  
Capniidae

530.3.C45  
Chloroperlidae

530.3.E9  
Eustheniidae

530.3.L47  
Leptoperlidae

530.3.L49  
Leuctridae (Rolled-wing stoneflies)

530.3.N4  
Nemouridae

530.3.P44  
Peltoperlidae

530.3.P47  
Perlidae

530.3.P48  
Perlodidae

530.3.P8  
Pteronarcyidae

530.3.T3  
Taeniopterygidae

530.4  
Anatomy and morphology

530.42  
Physiology

Diptera (Flies)

531  
General works, treatises, and textbooks

532  
Pictorial works and atlases

533  
Popular works

533.2  
Juvenile works

534  
Classification

534.2  
Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL536+

535  
General works

535.1  
North America (United States and Canada) (Table Q3)

535.2  
Mexico, Central America, and West Indies (Table Q3)

535.3  
South America (Table Q3)
Invertebrates
   Arthropoda
   Insects
   Diptera (Flies)
   Geographical distribution -- Continued

535.4  Europe (Table Q3)
535.5  Asia (Table Q3)
535.6  Africa (Table Q3)
535.7  Australia
535.75  New Zealand
535.8  Pacific islands (Table Q3)
535.9  Arctic regions
535.95  Antarctica
535.96  Tropics

Systematic divisions. By family

536  Culicidae (Mosquitoes)
537.A-Z  Other families, A-Z
537.A3  Acroceridae
537.A4  Agromyzidae (Leafminerflies)
537.A45  Allactoneuridae
537.A5  Anthomyiidae
537.A53  Anthomyzidae
537.A6  Apioceridae
537.A85  Asilidae (Robberflies)
537.A88  Astiidae
537.A9  Aulacigastridae
537.B5  Bibionidae (Marchflies)
537.B56  Blepharoceridae
537.B64  Bolitophilidae
537.B65  Bombyliidae (Beeflies)
537.B7  Braulidae
537.C24  Calliphoridae (Blowflies)
537.C25  Canaceidae
537.C26  Canthyloscelidae
537.C27  Carnidae
537.C33  Cecidomyiidae (Gall midges)
537.C35  Celyphidae
537.C37  Ceratopogonidae (Biting midges)
537.C376  Ceroplatidae
537.C4  Chamaemyiidae
537.C43  Chaoboridae (Phantom midges)
537.C455  Chiromyzidae
537.C456  Chironomidae (Tendipedidae; midges)
537.C46  Chloropidae
537.C49  Chyromyiidae
537.C5  Clusiidae
537.C56  Cnemospathidae
537.C634  Coelopidae
537.C636  Coenomyiidae
537.C65  Conopidae
537.C673  Cordyluridae
   Corethridae see QL537.C43
537.C69  Corynoscelidae
537.C7  Cryptochaetidae
   Culicidae see QL536
537.C8  Cuterebridae (Rabbit bots; rodent bots)
Invertebrates
Arthropoda
Insects
Diptera (Flies)
Systematic divisions. By family
Other families, A-Z -- Continued

537.C9
Cylindrotomidae
537.D47
Deuterophlebiidae
537.D48
Dexiidae
537.D52
Diadocidiidae
537.D53
Diastatidae
537.D56
Diopsidae
537.D58
Ditomyiidae
537.D59
Dixidae
537.D6
Dolichopodidae (Long-legged flies)
537.D76
Drosophilidae (Vinegarflies)
537.D79
Dryomyzidae
537.E4
Empididae (Danceflies)
537.E7
Ephydridae
Euribiidae see QL537.T42
537.G3
Gasterophilidae (Horse bots)
537.G4
Glossinidae
Heleidae see QL537.C37
537.H44
Helomyzidae
537.H48
Hesperinidae
537.H54
Hilarimorphidae
537.H57
Hippoboscidae (Louseflies)
Hyperoscelididae see QL537.C26
Hypodermatidae see QL537.O4
537.I76
Ironomyiidae
537.K47
Keroplatidae
537.L3
Lauxaniidae
537.L5
Limoniidae
537.L6
Lonchaeidae
537.L63
Lonchopteridae (Musidoridae)
537.L9
Lygistorrhinidae
537.M3
Macroceridae (Euphrosynidae)
537.M35
Manotidae
537.M4
Megamerinidae
Metopiidae see QL537.S25
537.M43
Micropelididae
537.M5
Miliopiidae
537.M6
Mormotomyiidae
537.M8
Muscidae (Houseflies, etc.)
537.M9
Mycetobiidae
537.M92
Mycetophilidae (Fungivoridae)
537.M93
Mydidae
537.M98
Mythicomyiidae
537.N44
Nemestrinidae
537.N46
Neottiophilidae
537.N47
Neriidae
537.N6
Nothybiidae
537.N9
Nycteribiidae
537.N94
Nymphomyiidae
537.O3
Odiniidae
537.O4
Oestridae (Botflies; warbleflies)
Invertebrates
Arthropoda
Insects
Diptera (Flies)
Systematic divisions. By family
Other families, A-Z -- Continued

537.O7  Opomyzidae
537.O8  Ottitidae
537.P3  Pachyneuridae
537.P34  Pallopteridae
537.P35  Pantophthalmidae
537.P4  Periscelidae
537.P42  Petauristidae
537.P44  Phasiidae
537.P46  Phoridae (Humpbacked flies)
537.P49  Phytalmiidae
537.P56  Piophilidae (Skipperflies)
537.P57  Pipunculidae (Dorylaidae; bigheadedflies)
537.P63  Platypezidae (Clythiidae)
537.P65  Platystomatidae
537.P83  Psilidae (Rust flies)
537.P85  Psychodidae (Mothflies)
537.P87  Pterocallidae
537.P89  Ptychopteridae (Liriopidae)
537.P97  Pygotidae
537.R4  Rhagionidae (Snipeflies)
537.R457  Rhinophoridae
537.R458  Rhinoteridae
537.R46  Rhopalomeridae
537.R5  Richardiidae
537.S25  Sarcophagidae (Metopiidae; fleshflies)
537.S32  Scatopsidae
537.S34  Scenopinidae (Omphralidae)
537.S35  Sciadoceridae
537.S357  Sciaridae (Lycoriidae; fungus gnats)
537.S365  Sciomyzidae
537.S367  Sciophilidae
537.S3  Sepsidae
537.S54  Silvicolidae
537.S55  Simuliidae (Melusinidae; blackflies)
537.S6  Solvidae
537.S7  Sphaeroceridae
537.S84  Stratiomyidae (Soldier flies)
537.S86  Streblidae
537.S87  Strongylophthalmiidae
537.S88  Synneuridae
537.S9  Syrphidae (Flowerflies; hoverflies)
537.T25  Tabanidae (Deerflies)
537.T28  Tachinidae (Larvaevoridae)
537.T3  Tachiniscidae
537.T35  Tanyderidae
537.T357  Tanypezidae
537.T42  Tephritidae
537.T447  Termitoxeniidae
537.T448  Tethinidae
537.T45  Thaumaleidae
Invertebrates
Arthropoda
Insects
Diptera (Flies)

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

537.T458
Thaumatoxenidae
537.T47
Therevidae
537.T49
Thyreophoridae
537.T6
Tipulidae (Crane flies)
537.T7
Trichoceridae (Winter crane flies)
537.T75
Trixoscelidae
Trypetidae see QL537.T42
Tylidae see QL537.M43
537.U4
Ulidiidae
537.X9
Xylophagidae (Erinnidae)
538
Anatomy and morphology
538.2
Physiology
Embioptera (Embiodea; web spinners)
539
General works, treatises, and textbooks
Geographical distribution
For geographical distribution of systematic divisions see QL539.3.A+
539.15
General works
539.2
North America (United States and Canada) (Table Q3)
539.22
Mexico, Central America, and West Indies (Table Q3)
539.23
South America (Table Q3)
539.24
Europe (Table Q3)
539.25
Asia (Table Q3)
539.26
Africa (Table Q3)
539.27
Australasia and Indo-Pacific islands (Table Q3)
539.28
Polar regions
539.29
Tropics
539.3.A-Z
Systematic divisions. By family, A-Z
539.3.A5
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605.A1 Periodicals, societies, congresses, serial publications
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611 Cephalochordata
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614 Periodicals, societies, congresses, serial publications
614.5 Collected works (nonserial)
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614.73 General works
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Cf. SH338+ Fisheries museums and exhibitions
Cf. QL638.93 Shark attacks
Cf. QL632.5 Atlantic Ocean islands
Cf. QL637 Arctic Ocean
Cf. QL637.2 Antarctic Ocean
Incl. the coast of Europe
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Percopsiformes
637.9.P5
Pleuronectiformes
Polypterusiformes see QL638.P76
637.9.S3
Salmoniformes
637.9.S35
Scorpaeniformes
637.9.S5
Siluriformes
637.9.S9
Synbranchiformes
637.9.T4
Tetraodontiformes
637.9.Z4
Zeiformes
638.A-Z
Osteichthyes (Bony fishes). By family, A-Z
Class here works on species, genera, and families
638.A15
Acanthoclinidae
638.A2
Acanthuridae (Surgeonfishes)
638.A25
Acipenseridae (Sturgeons)
638.A27
Acropomatidae
638.A29
Adrianichthyidae
638.A3
Ageneiosidae
638.A316
Agonidae (Poachers)
638.A32
Akysidae
Alabatidae see QL638.G6
638.A335
Albulidae (Bonefishes)
638.A34
Alepisauridae (Lancetfishes)
638.A35
Alepocephalidae
638.A36
Amarsipidae
638.A364
Amblycipitidae
638.A366
Amblyopsidae (Cavefishes)
638.A37
Amiidae (Bowfins)
638.A4
Ammodontidae (Sand lances)
638.A44
Amphiliidae
638.A47
Amphipnoidae
638.A5
Anabantidae
638.A53
Anablepidae
638.A54
Anarchichadidae (Wolffishes)
638.A55
Anguillidae (Freshwater eels)
Anisochromidae see QL638.P84
638.A556
Anomalopidae
638.A56
Anoplogasteridae
638.A567
Anoplopomatidae (Sablefishes)
638.A568
Anostomidae
638.A57
Anotopteridae (Daggertooths)
638.A577
Antennariidae (Frogfishes)
638.A6
Aoteidae
638.A63
Aphredoderidae (Pirate perches)
638.A64
Aplacanthidae
638.A642
Aplocheilidae
638.A643
Aplochitonidae
638.A65
Aplodactylidae
638.A7
Apogonidae (Cardinalfishes)
638.A73
Apterontitidae
Arapaimidae see QL638.O88
Chordates. Vertebrates
  Fishes
  Systematic divisions
  Osteichthys (Bony fishes). By family, A-Z -- Continued

638.A75  Argentinidae
638.A755  Ariidae (Sea catfishes)
638.A77  Arripidae
638.A78  Aspredinidae
638.A785  Astroblepidae
638.A788  Astronesthidae
638.A79  Ateleopodidae
638.A8  Atherinidae (Silversides)
638.A83  Auchenipteridae
638.A84  Aulopodidae
638.A844  Aulorhynchidae
638.A848  Aulostomidae (Trumpetfishes)
638.B13  Bagridae
638.B15  Balistidae (Triggerfishes; filefishes)
638.B153  Balitoridae (Hillstream loaches)
638.B155  Banjosidae
638.B17  Barbourisiidae
638.B18  Bathycypselidae
638.B2  Bathydraconidae
638.B23  Bathylaconidae
638.B25  Bathylagidae (Deepsea smelts)
638.B26  Bathymasteridae (Ronquils)
638.B27  Bathypontidae
638.B3  Batrachoididae (Toadfishes)
638.B34  Belonidae (Needlefishes)
638.B347  Belontiidae
638.B4  Berycidae
638.B6  Blenniidae (Comboth blennies)
638.B65  Bothidae (Lefteye flounders)
638.B67  Bovichthyidae
638.B7  Brachionichthyidae (Handfishes)
638.B8  Bramidae (Pomfrets)
638.B83  Branchiostegidae (Tilefishes)
638.B85  Bregmacerotidae (Codlets)
638.C12  Caesionidae
638.C14  Callichthyidae
638.C15  Callionymidae (Dragonets)
638.C2  Caproidae (Boarfishes)
638.C23  Caracanidae
638.C25  Carangidae (Jacks; pompanos)
638.C26  Carapidae (Pearlfishes)
638.C265  Caristiidae
638.C27  Catostomidae (Suckers)
638.C28  Caulophrynidae
638.C3  Centrarchidae (Sunfishes)
638.C32  Centriscidae (Snipefishes)
638.C326  Centrolephidae
638.C33  Centrophryidae
638.C34  Centropomidae (Snooks)
638.C347  Cepolidae
638.C35  Ceratiidae (Seadevils)
638.C356  Ceratodontidae
Chordates. Vertebrates
Fish.
Systematic divisions
Osteichthys (Bony fishes). By family, A-Z -- Continued

638.C36
   Cetomimidae
638.C37
   Cetopsidae
638.C385
   Chacidae
638.C4
   Chaenopsidae
638.C48
   Chaetodontidae (Butterflyfishes)
638.C483
   Champsodontidae
638.C484
   Chanidae
638.C485
   Channichthyidae
638.C486
   Channidae
638.C5
   Characidae (Characins; tetras)
638.C53
   Chaudhuridae
638.C534
   Chaunidae (Chaunids) (Viperfishes)
638.C5344
   Chaunacidae
638.C536
   Cheilodactyliidae
638.C5365
   Cheimarrichthyidae
638.C54
   Chiasmodontidae
638.C544
   Chilodontidae
638.C547
   Chironemidae
638.C549
   Chlorophthalmidae (Greeneyes)
638.C55
   Cichlidae (Cichlids)
638.C577
   Cirrhitidae (Hawkfishes)
638.C578
   Citharidae
638.C5785
   Citharinidae
638.C6
   Claridae (Airbreathing catfishes)
638.C63
   Clinidae (Clinids; blennies)
638.C64
   Clupeidae (Herrings)
638.C647
   Cobitidae (Loaches)
(638.C65)
   Coelacanthidae
      see QL638.L26
638.C6535
   Colocongridae
638.C654
   Comephoridae
638.C655
   Congiopodidae
638.C66
   Congridae (Conger eels)
638.C666
   Congrogadidae
638.C7
   Coraciniidae
   Coregonidae see QL638.S2
638.C795
   Coryphaenidae (Dolphinfishes)
   Coryphaenoididae see QL638.M2
638.C8
   Cottidae (Sculpins)
638.C816
   Cottocomephoridae
638.C818
   Cottunculidae
638.C83
   Cranoglanidiidae
638.C84
   Creediidae
638.C88
   Ctenoluciidae
638.C89
   Curimatidae
638.C9
   Cyclopteridae (Lumpsuckers; snailfishes)
638.C914
   Cyemidae
638.C92
   Cynodontidae
638.C93
   Cynoglossidae (Tonguefishes)
638.C94
   Cyprinidae (Minnows; carps)
638.C96
   Cyprinodontidae (Killifishes)
638.D3
   Dactylopteridae (Flying gurnards)
Chordates. Vertebrates
Fish
Systematic divisions
Osteichthys (Bony fishes). By family, A-Z -- Continued

638.D35  Dactyloscopidae (Sand stargazers)
638.D4  Denticipitidae
638.D47  Derichthyidae
638.D5  Diceratiidae
638.D56  Diodontidae (Porcupinefishes)
638.D57  Diplomyistidae
638.D577  Diretmidae
638.D58  Distichodontidae
638.D6  Doradidae
638.D73  Drepaneidae (Sicklefishes)
638.D93  Dysommiidae (Arrowtooth eels)
638.D95  Dysomminidae
638.E2  Echeneidae (Remoras)
638.E34  Electrophoridae (Electric eel)
638.E4  Elopidae (Ladyfishes, etc.)
638.E5  Embiotocidae (Surperches)
638.E53  Engraulidae (Anchovies)
638.E55  Enoplosidae
638.E6  Erythrinidae
638.E83  Evermannellidae
638.E87  Exocoetidae (Flying fishes)
638.F5  Exocetidae (Cornetfishes)
638.F6  Formionidae
638.F86  Fundulidae
638.G2  Gadidae (Codfishes)
638.G23  Gadopsidae
638.G25  Galaxiidae
638.G266  Gasteropelecidae
638.G27  Gasterosteidae (Sticklebacks)
638.G4  Gempylidae (Snake mackerels)
638.G43  Gerridae (Mojarras)
638.G45  Gibberichthyidae
638.G455  Gigantactinidae
638.G5  Giganturidae
638.G55  Glaucosomitidae (Pearl perches)
638.G6  Gobiesocidae (Clingfishes)
638.G7  Gobiidae (Gobies)
638.G73  Gobioididae
638.G75  Gonorynchidae
638.G8  Gonostomatidae (Lightfishes)
638.G82  Goodeidae
638.G843  Grammicolepidae
638.G844  Grammatidae
638.G848  Grammistidae (Soapfishes)
Chordates. Vertebrates

Fishes

Systematic divisions

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

638.G85  Gregoryinidae
638.G87  Gymnarchidae
Gymnodontidae see QL638.T32
638.G9  Gymnotidae
638.G95  Gyrinocheilidae
638.H23  Haemulidae (Grunts)
638.H25  Halosauridae
638.H28  Harpagiferidae
638.H3  Harpodontidae
638.H444  Helogeneidae
638.H448  Helostomatidae
638.H45  Hemiodontidae
638.H46  Hemiramphidae (Halfbeaks)
638.H47  Hepsetidae
638.H484  Heterenchelyidae
638.H486  Heteropneustidae
638.H49  Hexagrammidae (Greenlings)
638.H54  Himantolophidae (Footballfishes)
638.H56  Hiodontidae (Mooneyes)
638.H64  Holocentridae (Squirrelfishes)
       (638.H66) Homalopteridae
       see QL638.B153
638.H67  Hoplichthyidae
638.H68  Horaichthyidae
638.H93  Hypophthalmidae
638.H935  Hypoptychidae
638.I13  Icelidae
638.I15  Ichthyboridae
638.I23  Icosteidae (Ragfishes)
638.I3  Ictaluridae (Freshwater catfishes)
638.I35  Idiacanthidae
638.I4  Indostomidae
638.I6  Ipnopidae
638.I86  Isonidae
638.I88  Istiophoridae (Billfishes)
638.J4  Jenynsiidae
638.K3  Kasidoridae
638.K5  Kneriidae
638.K6  Korsogasteridae
638.K7  Kraemeridae
638.K8  Kuhlidae
638.K87  Kufidae
638.K9  Kyphosidae (Sea chubs)
638.L115  Labracoglossidae
638.L12  Labridae (Wrasses)
638.L2  Lactoriidae
638.L24  Lampridae (Opahs)
638.L26  Latimeriidae
638.L28  Latridae
638.L3  Lebiasinidae
638.L35  Leiognathidae
638.L37  Lepidosirenidae
Chordates. Vertebrates
   Fishes
      Systematic divisions
         Osteichthys (Bony fishes). By family, A-Z -- Continued

638.L4    Lepisosteidae (Gars)
638.L47   Leptoscleridae
638.L48   Lethrinidae
638.L5    Limnichthyidae
638.L55   Linophrynidae
     Liparidae see QL638.C9
638.L57   Lipogenidae
638.L6    Lobotidae (Tripletails)
638.L75   Lophiidae (Goosefishes)
638.L78   Lophotidae (Crestfishes)
638.L785  Loricariidae (Armored catfishes)
638.L8    Luciocephalidae
638.L9    Lutjanidae (Snappers)
638.L95   Luvaridae (Louvars)
638.M13   Macririidae
638.M16   Macrocephalichthyidae
638.M165  Macrorhaphosidae
638.M27   Macrouridae (Grenadiers)
638.M29   Macrurocyttidae
638.M24   Malacosteidae
638.M246  Malapteruridae
638.M28   Mastacembelidae
638.M33   Megalopidae (Tarpon)
638.M34   Melamphaeidae
638.M35   Melanocetidae
     Melanostomiatae see QL638.M3573
638.M3573 Melanostomiidae
638.M358  Melanotaeniidae
638.M37   Menidae
638.M6    Merlucciidae
638.M5    Microdesmidae (Wormfishes)
     Microstomidae see QL638.B25
638.M57   Mirapinnidae
638.M6    Mochokidae
638.M64   Molidae (Molas)
638.M645  Monacanthidae
638.M65   Monocentridae
638.M653  Monodactyloidae
638.M654  Monognathidae
638.M67   Moridae
638.M675  Moringuidae (Spaghetti eels)
638.M676  Mormyridae
638.M678  Moronidae
638.M8    Mugilidae (Mullets)
(638.M84)    Mugiloididae
     see QL638.P613
638.M85   Mullidae (Goatfishes)
638.M87   Muraenidae (Pike congers)
638.M875  Muraenidae (Morays)
638.M876  Muraenolepididae
638.M97   Myctophidae (Lanternfishes)
638.M9    Myrocongridae
Chordates. Vertebrates
   Fishes
   Systematic divisions
   Osteichthys (Bony fishes). By family, A-Z -- Continued

638.N25  Nandidae
638.N3    Neenchelyidae
638.N33   Nematistiidae
638.N34   Nemichthyidae (Snipe eels)
638.N347  Nemipteridae
638.N36   Neoceratiidae
638.N38   Neoscopelidae
638.N387  Neostethidae
638.N4    Nessorhamphidae
638.N46   Nettastomatidae
638.N5    Nomeidae
638.N57   Normanichthyidae
638.N58   Notacanthidae (Spiny eels)
638.N586  Notogaptidae
638.N5867 Notopteridae
638.N5873 Notopterusidae
638.N6    Nototheniidae
   Novumbridae see QL638.U5
638.O2    Odacidae
638.O23   Odontobutidae
638.O3    Ogcocephalidae (Batfishes)
638.O4    Olyridae
638.O45   Omosidae
638.O5    Oneiridae
638.O633  Ophichthidae (Snake eels)
638.O634  Ophicliniidae
638.O637  Ophidiidae (Cusk eels)
638.O65   Opisthognathidae (Jawfishes)
638.O657  Opisthopteridae (Spookfishes)
638.O67   Oplegnathidae
638.O7    Oreosomatidae
638.O78   Oryziatidae
638.O84   Osmeridae (Smelts)
638.O87   Osphronemidae
638.O88   Osteoglossidae
638.O887  Ostraciidae
638.O9    Owstoniidae
   Oxudercidae see QL638.G7
638.P254  Pangasiidae
638.P258  Pantodontidae
638.P3    Paralepididae
638.P313  Paralichthyidae (Sand flounders)
638.P315  Paratenidae
638.P316  Parodontidae
638.P318  Pataecidae
638.P32   Pegasidae
638.P34   Pempheridae (Sweepers)
638.P35   Pentacerotidae (Armorheads)
638.P357  Penatpodidae
638.P358  Percichthyidae
638.P4    Percidae (Perches; darters)
638.P464  Percophidae (Flatheads)
Chordates. Vertebrates

Fishes

Systematic divisions

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

638.P468
Percopsidae (Trout-perches)

638.P47
Peroneididae

638.P5
Phalostethidae

638.P55
Pholidichthyidae

638.P56
Pholididae (Gunnels)

638.P57
Phractolaemidae

638.P58
Phycidae

638.P6
Pimelodidae

638.P613
Pinguipedidae (Sandperches)

638.P62
Platypephalidae

638.P63
Platyctidae

638.P64
Plecoglossidae

638.P648
Plesiopidae

638.P7
Pleuronectidae (Righteye flounders)

638.P72
Plotosidae

638.P73
Poeciliidae (Livebearers)

638.P747
Polymixiidae (Beardfishes)

638.P75
Polynemidae (Threadfins)

638.P755
Polyodontidae (Paddlefishes)

638.P76
Polypteridae

638.P768
Pomacentridae (Marine angelfishes)

638.P77
Pomacanthidae (Grunts)

(638.P772)
see QL638.H23

638.P778
Pomatomidae (Bluefishes)

638.P785
Priacanthidae (Bigeyes)

638.P786
Prochilodontidae

638.P788
Profundulidae (Middle American killifishes)

638.P8
Psettodidae

638.P84
Pseudechromidae

638.P844
Pseudogrammidae

Pseudoplesiopidae see QL638.P84

638.P855
Psilorhynchidae

638.P88
Psychrolutidae

638.P9
Ptilichthyidae (Quillfishes)

Pseudechididae see QL638.T6

638.P97
Pyramodontidae

638.R3
Rachycentridae (Cobias)

638.R4
Regalecididae (Oarfishes)

638.R48
Retroicnidae

638.R5
Rhamphichthyidae

638.R55
Rhinoprenidae

638.R59
Rhyacichthyidae

638.R65
Rondeletiidae

638.R68
Rosauridae

638.S15
Saccopharyngidae

638.S18
Salangidae

638.S2
Salmonidae (Salmon; trout; whitefishes)

638.S3
Scardidae (Parrotfishes)

638.S32
Scatophagidae (Scats)

638.S334
Schilbeidae

638.S335
Schindleriidae
Chordates. Vertebrates
Fishes
Systematic divisions
Osteichthys (Bony fishes). By family, A-Z -- Continued

638.S34 Sciaenidae (Drums)
638.S347 Scomberesocidae (Sauries)
638.S35 Scombridae (Tuna; mackerel)
638.S374 Scopelarchidae (Pearleys)
   Scopelosaurusidae see QL638.N5873
638.S38 Scophthalmidae
638.S42 Scorpaenidae (Scorpionfishes)
638.S45 Scytalinidae (Graveldivers)
   (638.S47) Searsidae (Tubeshoulders)
   see QL638.P63
638.S48 Serranidae (Sea basses)
   (638.S483) Serrasalmidae
   see QL638.C5
638.S485 Serivomeridae
638.S5 Siganidae
638.S54 Sillaginidae
638.S6 Siluridae (Old World catfishes)
638.S64 Simenchelyidae
638.S68 Sisoridae
638.S7 Soleidae (Soles)
638.S73 Solenostomidae
638.S74 Sparidae (Porgies)
638.S77 Sphyraenidae (Barracudas)
638.S785 Stephanobarbrycidae
638.S8 Sternopygidae
   (638.S83) Sternopygidae (Glass knifefishes)
638.S84 Stichaeidae (Pricklebacks)
638.S86 Stomatiidae
638.S87 Stromateidae (Butterfishes)
638.S88 Stylephoridae (Tube-eyes)
   Synancejidae see QL638.S42
638.S892 Synaphobranchidae
638.S893 Synbranchidae
638.S9 Syngnathidae (Pipefishes; seahorses)
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)
Chordates. Vertebrates
Fishes
Systematic divisions
Osteichthys (Bony fishes). By family, A-Z -- Continued

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.B35)
Bdellostomatidae
see QL638.15.M9
638.15.A-Z
By family, A-Z
(638.15.P37)
Myxinidae
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
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
Chordates. Vertebrates

Fishes

Systematic divisions

Chondrichthyes (Cartilaginous fishes)

Rajiformes (Rays)

By family, A-Z -- Continued

638.85.A5
Anacanthobatidae

638.85.A7
Arhynchobatidae

638.85.D3
Dasyatidae (Stingrays)

638.85.G9
Gymnuridae

638.85.H48
Hexatrygonidae (Sixgill stingrays)

638.85.M6
Mobulidae (Manta rays)

638.85.M9
Myliobatidae (Eagle rays)

638.85.P6
Potamotrygonidae (Freshwater stingrays)

(638.85.P7)
Pristidae (Sawfishes)

see QL638.78.P75

638.85.R3
Rajidae (Skates)

638.85.R4
Rhinobatidae (Guitarfishes)

Rhinopteridae see QL638.85.M9

638.85.R48
Rhyynchobatidae

(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

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)

Carcharidae see QL638.95.O3

638.95.C36
Centrophoridae (Gulper sharks)

638.95.C37
Cetorhinidae (Basking shark)

638.95.C4
Chlamydocelachidae (Frilled sharks)

638.95.D3
Dalatiidae (Kitefin sharks; sleeper sharks)

Echinochiridiae see QL638.95.S64

638.95.E85
Etmopteridae (Lantern sharks)

638.95.G55
Ginglymostomatidiae (Nurse sharks)

638.95.H4
Heterodontidae (Bullhead sharks)

638.95.H48
Hexanchidae (Cow sharks)

Isuridae see QL638.95.L3
Chordates. Vertebrates
Fishes
Systematic divisions
Chondrichthyes (Cartilaginous fishes)
Sharks
Systematic divisions
By family, A-Z -- Continued

638.95.L3 Lamnidae (Mackerel sharks)
638.95.M44 Megachasmidae (Megamouth shark)
638.95.M58 Mitsukurinidae (Goblin shark)
638.95.O3 Odontaspididae (Sand tigers)
638.95.O7 Orectolobidae (Wobbegongs)
638.95.P7 Pristiophoridae (Saw sharks)
638.95.P8 Pseudotriakidae (False cat shark)
638.95.R4 Rhincodontidae (Whale shark)
638.95.S3 Scapanorhynichidae
638.95.S38 Scyliorinidae (Cat sharks)
638.95.S7 Somniosidae see QL638.95.D3
638.95.S84 Sphymidae (Hammerhead sharks)
638.95.S84 Squalidae (Dogfish sharks)
638.95.S88 Squatinidae (Angel sharks)
638.95.S92 Stegostomatidae (Zebra shark)
638.95.T75 Triakidae (Houndsharks)

638.97 Immunology
638.99 Genetics
639 Anatomy and morphology
639.1 Physiology
   Including electrophysiology and electric fishes
   For effects of pollution, disease, etc. see SH171+
639.15 Age determination. Age/growth calculations. Length/weight relationships
   For particular groups or species see QL637.9+
639.16 Racial analysis
639.2 Reproduction and spawning
   Cf. SH155.6 Artificial spawning
   Cf. SH155.7 Induced spawning
639.25 Development. Eggs and larvae
639.3 Behavior
639.4 Locomotion
639.5 Migration. Diadromy
   Cf. SH156.8 Fish tagging
639.6 Vertical distribution
   Including diel vertical migration
639.8 Ecology
Parasites see SH175

Reptiles and amphibians
640 Periodicals, societies, congresses, serial publications
640.5 Collected works (nonserial)
640.7 Dictionaries and encyclopedias
641 General works, treatises, and textbooks
643 Pictorial works and atlases
644 Popular works
644.2 Juvenile works
644.7 Rare and endangered species
644.73.A-Z By region or country, A-Z
Extinct reptiles and/or amphibians
Chordates. Vertebrates
  Reptiles and amphibians
    Extinct reptiles and/or amphibians -- Continued
  644.8   General works
  644.83.A-Z   By region or country, A-Z
  645   Classification. Nomenclature
  645.2   Catalogs and collections
    Evolution
  645.3   General works
  645.4   Speciation
  645.5   Variation

Study and teaching. Research
  Including census taking, banding, marking, tagging, etc., and general works on amphibian and
  reptile watching and viewing sites
  645.6   General works
  645.63.A-Z   By region or country, A-Z
  645.65   Collection and preservation
  645.7   Dangerous reptiles

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   North America
    General works
  652   United States
    General works
  653.A-Z   By region or state, A-Z
  654   Canada
    General works
  654.2.A-Z   By region, province, or territory, A-Z
  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)
  659   Asia (Table Q3)
  660   Africa (Table Q3)
  661   Australia
  663.5   New Zealand
  664   Pacific islands (Table Q3)
  664.2   Arctic regions
  664.4   Antarctica
  664.6   Tropics

Systematic divisions
  Reptiles
  665   General works, treatises, and textbooks
    Juvenile works see QL644.2
  665.3   Physiographic divisions
    Aquatic reptiles. Water reptiles
  665.5   General works
  666.A-Z   Marine reptiles. Sea reptiles
    Geographical distribution see QL648+
  666.A-Z   By order and family, A-Z
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Reptiles
By order and family, A-Z
Systematic divisions -- Continued
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)
(666.C94)
Gavialidae
see QL666.C925

Squamata

666.L19
General works
Amphisbaenia
666.L192
General works
666.L193
Amphisbaenidae
666.L194
Bipedidae
Lacertilia (Sauria; lizards)
666.L2
General works
(666.L21-.L2196)
Geographical distribution
see QL648+

666.L223
Agamidae
Amphisbaenidae see QL666.L192+
666.L225
Anelytropsidae
666.L2254
Anguidae (Glass lizards)
666.L2256
Anniellidae
666.L23
Chamaeleontidae (Chameleons)
666.L234
Cordylidae (Girdle-tailed lizards)
666.L236
Corytophanidae
666.L237
Crotaphytidae
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
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Reptiles
By order and family, A-Z
Squamata
  Lacertilia (Sauria; lizards) -- Continued
  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.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
  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)
     General works
  668.A6  General works
  668.A63  Caeciliidae
  668.A65  Ichthyophiidae
  668.A67  Rhinatrematidae
  668.A68  Scolecomorphidae
  668.A69  Uraeotyphlidae
     Caudata (Urodele; salamanders; newts)
     General works
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Amphibians
By order and family, A-Z

Caudata (Urodela; salamanders; newts) -- Continued

- Ambystomatidae (Mole salamanders)
  668.C23
- Amphiumidae
  668.C237
- Cryptobranchidae (Giant salamanders)
  668.C24
- Dicamptodontidae
  668.C243
- Hynobiidae
  668.C25
- Plethodontidae (Lungless salamanders)
  668.C274
- Proteidae
  668.C277
- Rhyacotritonidae
  668.C278
- Salamandridae (Newts)
  668.C28
- Sirenidae
  668.C285

Ecaudata (Anura; Salientia; frogs; toads)

- Alytidae
  668.E2
- Ascaphidae (Tailed frogs)
  668.E217
- Atelopodidae
  (668.E22)
  see QL.668.E227
- Bombinatoridae
  668.E224
- Brevicipitidae
  668.E225
- Bufonidae (Toads)
  668.E227
- Centrolenidae (Glass frogs)
  668.E23
- Ceratobatrachidae
  668.E232
- Dendrobatidae
  668.E233
- Dicroglossidae
  (668.E235)
  see QL.668.E214
- Discoglossidae
- Hemiphractidae
  668.E237
- Hylidae (Tree frogs)
  668.E24
- Hyperoliidae
  668.E244
- Leiopelmatidae
  668.E255
- Leptodactylidae (Robber frogs)
  668.E257
- Mantellidae
  668.E259
- Microhylidae (Narrow-mouthed toads)
  668.E26
- Myobatrachidae
  668.E2615
- Pelobatidae (Eurasian spadefoot toads)
  668.E262
- Pelodyaidae
  668.E2626
- Pelodytidae
  668.E263
- Phrynoderidae
  668.E264
- Pipidae
  668.E265
- Pseudidae
  668.E268
- Ranidae (Frogs)
  668.E27
- Rhacophoridae
  668.E274
- Rhinophrynidae
  668.E275
- Scaphiopodidae (North American spadefoot toads)
  668.E33

- Genetics
  668.5
- Anatomy and morphology
  669
- Physiology
  669.2
- Age determination. Life spans. Longevity
  669.25
- Reproduction
  669.3
- Behavior
  669.5
- Ecology
  669.8
Chordates. Vertebrates -- Continued

Birds

671  Periodicals, societies, congresses, serial publications
672  Collected works (nonserial)
672.2  Dictionaries and encyclopedias
672.5  Ornithological literature
672.6  Language. Authorship

History

672.7  General works
672.73.A-Z  By region or country, A-Z
673  General works, treatises, and textbooks
674  Pictorial works and atlases
674.4  Ornithological illustration
675  Birds' eggs and nests
676  Popular works
676.2  Juvenile works

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
676.55  By region or country
       United States
676.56.A-Z  By region or state, A-Z
676.57.A-Z  Other regions or countries, A-Z
676.7  Rare and endangered species
   For local see QL676.55+

676.8  Extinct birds
677  Classification. Nomenclature
677.2  Catalogs and collections
677.3  Evolution
677.4  Population dynamics
   For mortality see QL698.25
677.5  Study and teaching. Research
   Including census taking, bird banding, and general works on bird watching and birding sites
677.7  Collection and preservation
677.75  Dangerous birds
677.78  Birds of prey. Raptors
   Cf. QL696.F3+ Falconiformes
   Cf. QL696.S8+ Strigiformes
677.79.A-Z  Other types of birds, A-Z
677.79.C38  Cavity-nesting birds
677.79.E85  Exotic birds
677.79.F55  Flightless birds
677.79.F67  Forest birds
677.79.P37  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
677.79.P37  Ornamental birds see SF512+
677.79.P57  Piscivorous birds
677.79.P57  Talking birds see SF462.8
Chordates. Vertebrates

Birds

Other types of birds, A-Z -- Continued

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+

Aquatic birds. Water birds

Including shore birds

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

678.5

General works

Marine birds. Sea birds

678.52

General works

By region

678.55

Atlantic Ocean

678.6

Indian Ocean

678.65

Pacific Ocean

Topographical divisions

679

Zone divisions

e.g. 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)

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

General works

693.3.A-Z

By state, territory, or region, A-Z

693.5

New Zealand

694

Pacific islands (Table Q3)

694.5

Atlantic islands (Table Q3)

694.7

Indian Ocean islands (Table Q3)

695

Arctic regions

695.2

Antarctica
Chordates. Vertebrates

Birds

Geographical distribution -- Continued

695.5

Systematic divisions. By order and family, A-Z

Accipitriformes see QL696.F3+

Anseriformes

696.A5

General works
696.A52

Anatidae (Ducks; geese; swans)
696.A53

Anhimidae (Screamers)

Apodiformes

696.A55

General works
696.A552

Apodidae (Swifts)
696.A554

Hemiprocnidae (Crested swifts)
696.A558

Trochilidae (Hummingbirds)

Apterygiformes

696.A6

General works
696.A63

Apterygidae (Kiwis)

Ardeiformes see QL696.C5+

Caprimulgiformes

696.C2

General works
696.C22

Aegothelidae (Owlet frogmouths)
696.C23

Caprimulgidae (Goatsuckers)
696.C25

Nyctibiidae (Potoos)
696.C26

Podargidae (Frogmouths)
696.C28

Steatornithidae (Oilbirds)

Casuariiformes

696.C3

General works
696.C33

Casuariidae (Cassowaries)
696.C34

Dromiceidae (Emus)

Charadriiformes

696.C4

General works
696.C42

Alcidae (Auks; auklets; murres)
696.C428

Burhinidae (Thick-knees)
696.C43

Charadriidae (Plovers; turnstones; surfbirds)
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 (Heron; bitterns)
696.C525

Balaenicipitidae (Shoebill)
Chordates. Vertebrates
Birds
Systematic divisions. By order and family, A-Z

Ciconiiformes -- Continued
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)

Coccygees see QL696.C8+

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

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

Cypseliformes see QL696.A55+

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

Galliformes
696.G2  General works
696.G23  Cracidae (Curassows; guans; chachalacas)
696.G25  Megapodiidae (Megapodes)
(696.G254)  Meleagrididae (Turkeys)
        see QL696.G27
696.G258  Numididae (Guineafowl)
696.G259  Odontophoridae (New World quails)
696.G26  Opisthocomidae (Hoatzins)
Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Galliformes -- Continued

696.G27
Phasianidae (Pheasants, Old World quails, grouse, partridges, peafowls, turkeys)

(696.G285)
Tetraonidae (Grouse)

see QL696.G27

Gaviiformes

696.G3
General works

696.G33
Gaviidae (Loons)

Gruiformes

696.G8
General works

696.G82
Aramidae (Limpkins)

696.G827
Cariamidae (Seriemas)

696.G83
Eurypgidae (Sunbitterns)

696.G84
Gruidae (Cranes)

696.G845
Heliornithidae (Sungrebes)

696.G85
Mesitornithidae (Roatelos)

696.G86
Otididae (Bustards)

Pedionomidae see QL696.C465

696.G874
Psophiidae (Trumpeters)

696.G876
Rallidae (Rails; coots)

696.G878
Rhynochetidae (Kagus)

696.G89
Turnicidae (Bustardquails)

Halcyones see QL696.C72

Lariformes see QL696.C46

Limicolae see QL696.C4+

Meropidae see QL696.C754

Musophagiformes see QL696.C85

Passeriformes

696.P2
General works

696.P212
Acanthisittidae (New Zealand wrens)

696.P213
Acanthizidae (Australasian warblers)

696.P2133
Acrocephalidae (Reed warblers and allies)

696.P2135
Aegithalidae (Long-tailed tits; bushtits)

Aegithinidae see QL696.P2344

696.P214
Alaudidae (Larks)

696.P216
Artamidae (Woodswallows; currawongs; Australian butcherbirds)

696.P218
Atrichornithidae (Scrubbirds)

696.P22
Bombycillidae (Waxwings)

696.P224
Callaeidae (Wattled crows; huias; saddlebacks)

696.P225
Campephagidae (Cuckoo shrikes)

696.P228
Catamblyrhynchidae (Plushcapped finches)

696.P23
Certhiidae (Creepers)

696.P234
Chamaeidae (Wrentits)

696.P2344
Chloropseidae (Leafbirds)

696.P235
Cinclidae (Dippers)

696.P2354
Climacteridae (Australasian treecreepers)

696.P236
Coerebidae (Honeycreepers)

696.P2365
Conopophagidae (Antpipits)

696.P2367
Corvidae (Crows; magpies; jays)

696.P2368
Cotingidae (Cotingas)

(696.P237)
Cracticidae

see QL696.P216

696.P239
Cyclarhidae (Peppershrikes)

696.P24
Dendrocolaptidae (Woodhewers)
Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Passeriformes -- Continued

696.P242 Dicaeidae (Flowerpeckers)
696.P2427 Dicruridae (Drongos)
(696.P243) Drepanididae (Hawaiian honeycreepers)
       see QL696.P246
696.P2435 Dulidae (Palmchats)
696.P2438 Emberizidae (Buntings; American sparrows; wood warblers)
696.P2439 Eopsaltriidae (Australian robins)
696.P244 Estrildidae (Waxbills)
696.P245 Eurylaimidae (Broadbills)
696.P2455 Formicariidae (Ant thrushes)
696.P246 Fringillidae (Finches; Hawaiian honeycreepers)
696.P2464 Furnariidae (Ovenbirds)
696.P2468 Grallinidae (Magpie larks)
696.P247 Hirundinidae (Swallows)
696.P2474 Hyposittidae (Caralbilled nuthatches)
696.P2475 Icteridae (Blackbirds; troupials)
       Irenidae see QL696.P2585
696.P248 Laniidae (Shrikes)
696.P2485 Maluridae (Australian wrens)
696.P249 Meliphagidae (Honeyeaters)
696.P2495 Menuridae (Lyrebirds)
696.P25 Mimidae (Thrashers; mockingbirds)
696.P252 Motacillidae (Wagtails; pipits)
696.P255 Muscicapidae (Old World flycatchers)
696.P257 Nectarinidae (Sunbirds)
696.P2585 Oriolidae (Old World flycatchers)
696.P259 Oxyruncidae (Sharpbills)
696.P2595 Pachycephalidae
696.P26 Paradisaeidae (Birds of paradise)
696.P2612 Paradoxornithidae (Parrotbills; suthoras)
696.P2615 Paridae (Titmice; chickadees)
(696.P2618)
       see QL696.P2438
696.P262 Passeridae
696.P2625 Philepittidae (Asities; false sunbirds)
696.P2629 Phytotomidae (Plantcutters)
696.P263 Pipridae (Manakins)
696.P2634 Pittidae (Pittas)
696.P264 Ploceidae (Weaverbirds)
696.P265 Prionopidae (Weaverbirds)
696.P266 Prunellidae (Accentors)
696.P267 Ptianomastidae (Silky flycatchers)
696.P2675 Ptienorrhyinidae (Bowerbirds)
696.P268 Pycnonotidae (Bulbuls)
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696.P273 Rhinocryptidae (Tapaculos)
696.P274 Rhipiduridae (Faintails)
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696.P45  Fregatidae (Frigate birds)
696.P47  Pelecanidae (Pelicans)
696.P474  Phaethontidae (Tropicbirds)
696.P4745  Phalacrocoracidae (Cormorants)
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696.P665  Procellariidae (Shearwaters; fulmars)
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698.9
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701.2
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701.5
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Information services
701.8
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Including the Internet

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Mammalogical literature
703
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704
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705
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637.C214
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637.C22
Canidae (Dogs)
   For domestic dogs see SF421+
637.C23
Felidae (Cats)
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637.C235
Herpestidae (Mongoosees)
637.C24
Hyaenidae (Hyenas)
637.C248
Mephitidae (Skunks)
637.C25
Mustelidae (Weasels; badgers; otters)
637.C26
Procyonidae (Raccoons)
637.C27
Ursidae (Bears; giant panda)
637.C28
Viverridae (Civets, etc.)
   Cetacea
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637.C4
637.C42
Mysticeti (Baleen whales)
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637.C425
Eschrichtiidae (Gray whales)
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637.C432
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   Iniidae see QL737.C436
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637.C433
Monodontidae (Narwhal; white whale)
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737.C533 Hipposideridae (Old World leaf-nosed bats)
737.C535 Megadermatidae (False vampires)
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737.C543 Mormoopididae
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737.D4 Cynocephalidae (Flying lemurs)
Edentata. Xenarthra
737.E2 General works
737.E22 Bradypodidae (Three-toed tree sloths)
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(737.I55) Solenodontidae see QL737.S74
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737.M242
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737.M336
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737.R654 Geomyidae (Pocket gophers)
737.R656 Gliridae (Dormice)
737.R66 Heteromyidae (Pocket mice; kangaroo rats)
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737.R664 Hystricidae (Old World porcupine)
737.R666 Muridae (Mice; rats; voles; lemmings; gerbils; hamsters)
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Scandentia
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737.S254 Tupaiidae (Tree shrews)

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737.S63 Trichechidae (Manatees)

Soricomorpha. Eulipotyphla
737.S7 General works
737.S73 Potamogalidae (Water shrews)
737.S74 Solenodontidae (Solenodons)
737.S75 Soricidae (Shrews)
737.S76 Talpidae (Moles)

Tubulidentata
737.T75 General works
737.T8 Orycteropodidae (Aardvarks)

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737.U4 General works
Artiodactyla (Even-toed ungulates)
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737.U52 Antilocapridae (Pronghorn)
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737.U54 Camelidae (Camels)
737.U55 Cervidae (Deer)
737.U56 Giraffidae
737.U57 Hippopotamidae (Hippopotami)
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            For domestic swine see SF391+
          Tayassuidae (Peccaries)
          Tragulidae (Chevrotains)
          Perissodactyla (Odd-toed ungulates)
            For domestic horses see SF277+
          Equidae (Horses)
          Rhinocerotidae (Rhinoceroses)
          Tapiridae (Tapirs)
        Xenartha see QL737.E2+
  Miscellany and curiosa
    Genetics
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    Anatomy and morphology
      For anatomy of domestic animals see SF761+
      Cf. QL801+ Comparative anatomy
    Cytology
    Physiology
      For physiology of domestic animals see SF768+
      Cf. QP1+ Animal physiology
    General works
    Reproduction
    Age determination
  Behavior
    General works
    Migration
  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
  Periodicals, societies, congresses, serial publications
  Dictionaries and encyclopedias
  History
    General works, treatises, and textbooks
      Cf. QH540+ General and animal ecology
      Cf. SF1+ Animal culture

Juvenile works
  Addresses, essays, lectures
  Special aspects of the subject as a whole, A-Z
  Data processing
  Mathematical models
  Mathematics
  Simulation methods
  Statistical methods
  Laboratory manuals

Special topics
  Behavioral endocrinology. Endocrine aspects of animal behavior see QP356.45
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Animal populations
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Cf. QL607.6 Vertebrate population dynamics
Cf. QL618.3 Fish population dynamics
Cf. QL677.4 Bird population dynamics

Periodicity. Seasonal habits

General works

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

Hibernation
Sleep behavior
General works
Nocturnal animals

Habitations
General works

Burrowing. Burrowing animals

Territoriality
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Bloodsucking animals
Browsing
Cannibalism

Health behavior. Medicinal use
Drug use
Symbiosis

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

Predation. Predatory animals
Cf. SF810.5+ Predator control

Aggression. Agonistic behavior
Cf. QL100.5 Animal attacks

Reconciliation
Defense mechanisms
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Familial behavior. Kin recognition
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Critical periods. Imprinting
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Special animals

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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+

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Famous animals

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795.A4
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795.A6
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795.A8
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Bats

795.B4
Bears

795.B5
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Bees

795.B57
Birds
Cf. SF460+ Cage birds

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Bison

Black eagle see QL795.B57

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Buffaloes

795.B85
Butterflies

Canada goose see QL795.B57

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Cats, Wild
Cf. SF445.5 Stories about domestic cats

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Cf. SF426.2 Stories about domestic dogs
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    Wild dog, African see QL795.A35
795.W8  Wolves
795.W83  Wombats
795.Z42  Zebras

Morphology
Class here general works on animal form, structure, body size, etc.
For particular animals, see QL363+

799  General works, treatises, and textbooks
799.3  Juvenile works
799.5  Study and teaching. Research

Anatomy
Here are classified general works on comparative anatomy and special works on the anatomy of
individual organs.
For works on the general anatomy or the anatomy of specific organs of special groups of animals,
see the preceding systematic divisions or SF Domestic animals
For invertebrate anatomy see QL363
For human anatomy see QM1+

801  Periodicals, societies, congresses, serial publications
803  Collected works (nonserial)
803.3  Dictionaries
803.5  Nomenclature, terminology, notation, abbreviations
804  Early works through 1800
805  General works, treatises, and textbooks
806  Pictorial works and atlases
806.5  Juvenile works
807  Comparative histology
    For special tissues see QM559+
808  Addresses, essays, lectures
Study and teaching. Research
810  General works
810.5  Problems, exercises, examinations
811  Outlines, syllabi
Laboratory manuals
812  General works
Anatomy
Study and teaching. Research
Laboratory manuals -- Continued

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
813.F57 Dogfish shark see QL813.F57
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
813.S69 Sharks see QL813.F57
813.S75 Squids

Museums. Exhibitions
814.A1 General works
814.A2-Z By region or country, A-Z
   Subarrange each country by Table Q5

Skeleton. Osteology
   For histology see QM569
821 General works
822 Skull
823 Catalogs of specimens
825 Articulations
827 Ligaments
831 Muscles
   For histology see QM571

Vascular system
835 Blood vessels
838 Heart
841 Lymphatics

Respiratory organs
845 General works
846 Branchiae (Gills)
847 Tracheae in Arthropoda
848 Lungs
849 Pleura
851 Diaphragm
852 Respiratory passages
853 Larynx
854 Trachea. Bronchi
855 Air sacs, swimming bladders, etc.

Digestive organs
856 General works
857 Mouth
858 Teeth
861 Pharynx. Esophagus. Tonsils
862 Stomach
Anatomy

Digestive organs -- Continued

863
Intestines
863.5
Peritrophic membranes
864
Peritoneum. Mesentery and omentum

Glands

865
Salivary glands
866
Pancreas
867
Liver
868
Ductless glands

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

Urogenital system

871
General works

Excretory organs
872
General works
872.5
Nephridia
872.7
Wolffian body
873
Kidneys
873.5
Ducts
874
Bladder
875
Urethra

Reproductive organs. Copulatory organs
876
General works
878
Male
881
Female

Nervous system

For histology see QM575

921
Periodicals, societies, congresses, serial publications
923
Collected works (nonserial)
925
General works, treatises, and textbooks
927
Laboratory manuals. Neurological technique
931
Neural elements: Cells, fibers, supporting structures, etc.

Central nervous system. Brain

933
General works, treatises, and textbooks

Special types
935
Invertebrate
937
Vertebrate
938.A-Z
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938.A35
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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
Anatomy
   Nervous system
      Central nervous system. Brain
         Special structures, A-Z -- Continued
      Thalamus
   938.T45
   939  Peripheral nervous system. Sympathetic nervous system
   940  Animal weapons for defense and offense
   941  Integument. Skin
       General works
   943  Skin glands. Odoriferous glands
   944  Mammmae
       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
      Biography
   954  Collective
   954.2.A-Z  Individual, A-Z
   955  General works, treatises, and textbooks
      Including general works on vertebrates or invertebrates
   956  Pictorial works and atlases
   956.5  Juvenile works
   957  Laboratory manuals
      Individual orders, genera, species, etc.
   958  Invertebrate
   959  Vertebrate
   Special topics
   961  Experimental embryology
   962  Behavioral embryology
   963  Chemical embryology
Embryology
   Special topics -- Continued
   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
   1801-1969
   1970-
23 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
   General works
33.1
   By region or state, A-Z
      Subarrange each state by Table Q7
33.2.A-Z
   Other regions or countries, A-Z
      Subarrange each country by Table Q7
33.3.A-Z
   Dissection
33.4 History
33.5 General works, treatises, and textbooks
34 Manuals of practical anatomy. Laboratory manuals
35 Outline guides
39 Laboratory technique
41 Laboratories
43.A-Z General works
   By region or country, A-Z
      Subarrange each country by Table Q6
Museums. Exhibitions
51.A1 General works
51.A2-Z By region or country, A-Z
      Subarrange each country by Table Q5
71 Addresses, essays, lectures
81 Nomenclature, terminology, notation, abbreviations
100 Musculoskeletal system
   Skeleton. Osteology
      Cf. RA1059 Forensic osteology
101 General works
105 Skull
      Cf. GN71+ Craniology
111 Vertebral column
113 Ribs and sternum
115 Hipbone and pelvis
117 Bones of the extremities
Articulations. Joints
131 General works
141 Ligaments
142 Articular cartilage
Muscles
151 General works
155 Of the head and neck
161 Of the trunk
165 Of the limbs
170 Tendons
Vascular system
   For works on the blood vessels of a particular organ or system, see the organ or system
178 General works
181 Heart. Pericardium
191 Arteries and veins
197 Lymphatics
Organs of respiration and voice
251 General works
255 Larynx
      Cf. QP306 Larynx physiology
257 Trachea. Bronchi
261 Lungs. Pleura
265 Diaphragm
Organs of digestion
301 General works
306 Mouth
311 Teeth
325 Salivary glands
331 Pharynx. Esophagus. Tonsils
341 Stomach
345 Intestines
351 Liver
352 Gallbladder
353 Pancreas
367 Peritoneum. Mesentery and omentum
Glands
   Cf. QM325 Salivary glands
   Cf. QM351 Liver
   Cf. QM353 Pancreas
368 General works, treatises, and textbooks
371 Ductless glands
   Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid
Urinary and reproductive organs
401 General works
404 Kidneys
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

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

Sense organs

501
General works
503
Tongue
505
Nose
507
Ear
511
Eye

Regional anatomy

 Including surgical and topographical anatomy

531
General works, treatises, and textbooks
535
Special regions
535
Head and neck. Jaws
535
Trunk
540
General works
541
Thorax
543
Abdomen
548
Limbs
548
Upper. Arm and hand
549
Lower. Leg and foot

Human and comparative histology

 Including microscopic anatomy and ultrastructure

For general comparative histology see QL807

550
Periodicals, societies, congresses, serial publications
550.2
Dictionaries and encyclopedias

Biography

550.5
Collective
550.6.A-Z
Individual, A-Z

551
General works, treatises, and textbooks

Study and teaching. Research

552
General works
553
Outlines, syllabi
554
Problems, exercises, examinations
555
Laboratory manuals

Laboratory technique

556
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556.5.A-Z
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Human and comparative histology
Laboratory technique
Special methods, A-Z -- Continued
Embedding, Plastic see QM556.5.P53

556.5.F5
Fixation
556.5.L9
Lyophilization
556.5.P53
Plastic embedding
557
Pictorial works and atlases
Special tissues
559
Pigment
561
Epithelium
   Cf. QP88.4 Physiology
562
Endothelium
   Cf. QP88.45 Physiology
563
Connective tissues
565
Adipose tissues
567
Cartilaginous tissues
569
Bony tissues
   Including bone marrow
569.5
Hematopoietic system
570
Blood vessels
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Muscular tissues
575
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Blood-brain barrier
576
Endocrine glands
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577
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577.4
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577.8
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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
   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
45 Data processing see QP33.6.D38
   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
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82.2.E4
Electrolytes
82.2.E43
Electromagnetic waves
82.2.G35
Gamma waves
82.2.G7
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82.2.H4
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82.2.H44
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82.2.H45
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82.2.H8
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   Immersion in water see QP82.2.W35

82.2.I45
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82.2.I5
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82.2.I53
Ionizing radiation
82.2.L3
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82.2.L5
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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
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  For lymph see QP115
  For secretions see QP190+
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99.3.H4   Hemocyanin
99.3.H45  Hemoerythrin
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
99.3.P7   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
108.5.P45 Peripheral circulation
109      Vasmoterm control. Baroreflexes
110.A-Z  Other special topics, A-Z
110.A37  Adrenergic receptors
110.A7   Artificial circulation
110.B5   Blood volume
110.C64  Collateral circulation
110.G45  Gene expression
Cardiovascular system. Circulation
Other special topics, A-Z -- Continued
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
114.M43 Mechanical properties
114.M46 Membranes
Heart
   Other special topics, A-Z -- Continued
 114.M48       Metabolism
 114.M65       Molecular biology
 114.R3        Radiation effects
 114.R43       Receptors
 114.R45       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
 137        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
 143.4      Research techniques
 143.5.A-Z   Special, A-Z
 143.5.A58   Anthropometric assessment
 143.5.M37   Mathematical models
 143.5.R33   Radioactive tracers
 143.5.S73   Stable isotope tracers
 143.7      Nutrient interactions
 144.A-Z     Other special topics, A-Z
 144.A77     Avocado
 144.B48     Beverages
Nutrition
Other special topics, A-Z -- Continued
144.C46 Chocolate. Cocoa
144.C58 Citrus fruit
Cocoa see QP144.C46
144.C63 Coconut
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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
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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 Hypothalamo-hypophyseal system
188.S2  Salivary glands
   Cf. QP191 Saliva
188.S26  Salt glands
188.S43  Sebaceous glands
   Cf. QP222 Sebum
188.S7  Spleen
188.S9  Sweat glands
   Cf. QP221 Sweat
188.T4  Tear glands. Lacrimal organs
   Cf. QP231 Tears
188.T5  Thymus gland
188.T54  Thyroid gland

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Secretions -- Continued

190 General works, treatises, and textbooks
   Digestive organs and glands secretions
190.7 General works, treatises, and textbooks
191 Saliva
193 Gastric juice
   Cf. QP552.G35 Gastric intrinsic factor
195 Pancreatic juice
197 Bile
   Cf. QP671.B5 Bile pigments
   Cf. QP752.B54 Bile acids
211 Urinary organs secretions. Urine
215 Mucous membrane secretions. Mucus
   Skin secretions
220 General works, treatises, and textbooks
221 Sweat
222 Sebum
231 Lacrimal organ secretions. Tears
   Other
235 Venom
246 Milk
246.5 Synovial fluid

Urinary and reproductive organs
247 General works
   Urinary organs
      Cf. QP211 Urine
248 General works
249 Kidneys
250 Ureters
250.5 Bladder
250.8 Urethra

Reproduction. Physiology of sex
   Cf. HQ31+ Sex instruction
   Cf. QP81.6 Sexual orientation. Homosexuality
   Cf. RA788 Sexual health
251 General works, treatises, and textbooks
251.5 Juvenile works
   Reproductive endocrinology
      Cf. RG159+ Endocrine gynecology
      Cf. RG558.5 Obstetrical endocrinology
      Cf. RG616 Fetus
252 General works
252.5 Reproductive immunology
      Cf. RG557 Obstetrics
   Male sex physiology
253 General works, treatises, and textbooks
255 Testes and semen
      Cf. QL966 Spermatogenesis
257 Accessory male organs
   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
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      For fertility see QP251
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      Cf. QL951+ Embryology (Zoology)
      Cf. QM601+ Human embryology
      Cf. RG610+ Human fetus
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   Sex differentiation
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   Sex determination. Genetic sex determination
      Cf. QH600.5 Sex chromosomes
      Cf. RG566 Determination of sex during pregnancy
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   Environmental sex determination
      Including temperature-dependent sex determination
279
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281
   Gestation
      Cf. RG499.2+ Obstetrics
285
   Parturition
      Cf. RG651+ Labor
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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
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   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
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   Work physiology
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310.C55
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310.D35
   Dancing
   Deglutition see QP148
310.F5
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310.G34
   Galloping
      Cf. SF289 Horses
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Cf. QP372.9 Galvanic skin response
Cf. QP447.5 Electroreceptors
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356
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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 Hypothalamic-hypophyseal system
356.45 Psychoneuroendocrinology. Behavioral endocrinology
356.47 Neuroimmunology
356.5 Radiation effects on the nervous system
357 Laboratory manuals
   Cf. BF79 Psychology laboratory manuals
357.5 Data processing
359 Miscellany and curiosa
   Neuropsychology. Physiological psychology. Psychophysiology
   Cf. BF1+ Psychology
360 General works
360.5 Cognitive neuroscience
360.6 Neuroanthropology
360.7 Neuroergonomics

Nervous system

361 General works, treatises, and textbooks
361.5 Juvenile works
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

Somatic nervous system

368 General works
368.5 Sympathetic nervous system
368.7 Parasympathetic nervous system
368.8 Autonomic ganglia. Paraganglia
369 Somatic nervous system. Muscle and skin nerves
   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

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(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, subconsicousness, and unconsciousness

416 Conditioned response

421 Fatigue
   Cf. BF482 Psychology
   Cf. QP321+ Muscle

425 Sleep. Hypnotic conditions, etc.
   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

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447 General works

447.5 Chemoreceptors see QP455+

447.7 Magnetoreceptors

447.8 Nociceptors see QP451.4
   For encephalic photoreceptors see QP384.3
   Proprioceptors see QP454
   Thermoreceptors see QP451.6

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448 General works
  Cutaneous senses

450 General works
451 Touch
451.2 Pressure
451.4 Pain
  Including nociceptors

451.6 Temperature
  Including thermoreceptors

454 Proprioception. Sense of movement. Muscular sense

Chemical senses. Chemoreceptors

455 General works
456 Taste
458 Smell

Hearing. Physiological acoustics
  Cf. ML3820+ Physiology of music
  Cf. QC221+ Sound (Physics)

460 Periodicals, societies, congresses, serial publications
461 General works, treatises, and textbooks
462 Popular works
462.2 Juvenile works
463 Limits of hearing
(464) Speech perception
  see BF463.S64

465 Pitch and tone perception and discrimination
467 Rhythm. Melody
469 Localization of sound
469.3 Bone conduction

Equilibrium. Labyrinths of the ear

471 General works
471.2 Cochlea

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

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481 General works
482 Night vision
482.5 After-images
483 Color vision

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487 General works
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  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

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517.B48
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517.B49
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517.B5
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517.B53
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517.B54
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517.B57
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    Biothermodynamics see QP517.T48
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517.C45
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      Including second messengers
517.C49
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517.C78
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517.D57
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517.F66
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517.H53
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### Animal biochemistry

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- 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
  - 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

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- 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
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      - 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
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Technique. Analytical biochemistry

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