Science (General)
  For applied science and technology, see Class T
  Periodicals. By language of publication
  1.A1
    Polyglot
  1.A3-Z
    English
    French
    German
    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
    Canada
  21
    Latin America
  22
    Mexico
  23
    Central America
  25
    West Indies
  29
    South America
  Europe
  41
    Great Britain
  44
    Czechoslovakia
  44.2
    Hungary
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    France
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    Germany
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    Greece
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    Italy
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    Vatican City
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    Belgium
  56.2
    Luxembourg
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    Netherlands
  60
    Soviet Union
  60.18
    Ukraine
  60.2
    Finland
  60.4
    Poland
    Baltic States
      Estonia
      Latvia
      Lithuania
  61
    Scandinavia (General)
  62
    Denmark. Iceland
  63
    Norway
  64
    Sweden
  65
    Spain. Portugal
  67
    Switzerland
  69
    Romania
  69.2
    Yugoslavia
  69.3
    Slovenia
  69.4
    Bulgaria
    Turkey see Q80.T8
  Asia
  72
    China
  72.5
    Taiwan
Societies
Asia -- Continued

73  India
74  Indochina
75  Indonesia
76  Philippines
77  Japan
80.A-Z  Other regions or countries, A-Z
      e.g.
80.C4  Ceylon. Sri Lanka
80.I67  Iran
80.I7  Israel
80.J67  Jordan
80.K6  Korea
80.P3  Pakistan
80.Q38  Qatar
80.R8  Russia in Asia. Siberia
80.S2  Saudi Arabia
80.S5  Singapore
80.S64  Southeast Asia
       Sri Lanka see Q80.C4
80.S9  Syria
80.T5  Thailand
80.T8  Turkey
82  Arab countries
83  Islamic countries
     Africa
     South Africa
85  Kenya
85.2  Nigeria
85.4  Zimbabwe
85.6  Namibia. South-West Africa
87  Egypt
89  Senegal
89.2  Mauritius
89.5  Sudan
91.A-Z  Other regions or countries, A-Z
91.A47  Algeria
91.A5  Angola
91.B45  Benin
91.B85  Burkina Faso
91.B87  Burundi
91.C17  Cameroon
91.C4  Central Africa
91.C48  Chad
91.C6  Congo (Democratic Republic). Zaire
91.E77  Eswatini
91.E84  Ethiopia
91.G5  Ghana
91.M27  Madagascar
91.M3  Malawi
91.M55  Morocco
91.M6  Mozambique
(91.N28)  Namibia
       see Q85.8
91.S9  Sub-Saharan Africa
SCIENCE (GENERAL)

Societies
Africa
   Other regions or countries, A-Z -- Continued
(91.S95)
   Swaziland
   see Q91.E77
91.T8
   Tunisia
91.Z33
   Zambia
93
   Australia
94
   New Zealand
99
   Pacific islands
101
Congresses
Museums. Exhibitions
   Cf. Q182.4 Science fairs
105.A1
   General works
105.A2-Z
   By region or country, A-Z
      Subarrange each country by Table Q5
Collected works
111
   Series of monographs. Serial collections (nonperiodical)
      For serial publications of universities or other serial publications not issued by societies see Q1+
      For serial publications of societies see Q10+
113
   Collected works of individual authors
Scientific voyages and expeditions (General)
   For expeditions of special fields, see the field, e.g. G145+ Geographical exploration; QH11
      Naturalists' expeditions; TL799 Flights to special planets; etc.
115
   General works
116
   Handbooks for scientific expeditions
121
   Encyclopedias
123
   Dictionaries
124
   Translating services. Translating
      Cf. T11.5 Technical translating
History
   Including science and state
124.6
   Periodicals, societies, congresses, serial publications
124.7
   Collected works (nonserial)
124.8
   Dictionaries and encyclopedias
124.85
   Nomenclature, terminology, notation, abbreviations
   General works see Q125+
124.95
   Ancient
124.97
   Medieval
   Modern
125
   General works
125.2
   Renaissance through 1700
125.4
   Outlines, syllabi
125.6
   Pictorial works and atlases
126
   Popular works
126.4
   Juvenile works
126.8
   Addresses, essays, lectures
126.9
   Study and teaching. Research
127.A-Z
   By region or country, A-Z
      e. g.
127.G4
   Great Britain
127.G7
   Greece
127.2
   Developing countries
128
   Contributions to science. By religious or ethnic groups
Women in science. Women scientists
For biography see Q141+
Cf. HQ1397 Women in science and the arts

Biography

141
Collective
143.A-Z
Individual, A-Z
  e.g.
143.G4
Galvani, Luigi
143.H5
Helmholtz, Hermann von
143.P2
Pasteur, Louis
143.S8
Swedenborg, Emanuel

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
Special topics, A-Z -- Continued

172.5.M87
Music
Parapsychology and science see BF1045.S33
Pattern formation see Q172.5.C45

172.5.P65
Popular culture

172.5.P77
Pseudoscience

172.5.P82
Public opinion
Racial science see Q172.5.S35

172.5.S34
Science indicators

172.5.S35
Scientific racism. Racial science

172.5.S47
Serendipity in science

172.5.S48
Sex discrimination

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
Philosophy. Methodology
Special topics, A-Z -- Continued

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

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

175.35
General works, treatises, and textbooks

175.37
Fraud

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

179.9
Research

179.92
Collected works (nonserial)
Communication of information

179.94
General works

179.96
Information services

179.97
Computer network resources
Including the Internet

179.98
Directories

180.A1
General works, treatises, and advanced textbooks

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
Research -- Continued

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
   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
Study and teaching -- Continued

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.

182.8 Social aspects
   Laboratories

183.A1 General works

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

183.3.A1 General works

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

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

183.9 Data processing

   Instruments and apparatus (General)

184 Periodicals, societies, congresses, serial publications

184.5 Dictionaries and encyclopedias

185 General works, treatises, and textbooks

185.3 Juvenile works

185.7 Catalogs

Audiovisual aids in science teaching

190 General works, treatises, and textbooks

192 Films. Motion pictures

194 Radio

196 Television

197 Other (not A-Z)

199 Handbooks, tables, formulas, etc.

209 Science readers in English

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

   (211) Science readers in French
      see PC2127.S4

   (213) Science readers in German
      see PF3127.S3

   (215) Science readers in Italian
      see PC1127.S3

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

222 Scientific illustration
   Cf. T11.8 Technical illustration

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

223 General works

Information services
   Including information centers

223.2 Periodicals, societies, congresses, serial publications

223.5 Directories
Communication in science
Information services -- Continued

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

226
Scientific language
Cf. T11+ Scientific writing

227
Science secretaries. Scientific correspondence

295
System theory
Cf. T57.6+ Operations research. Systems analysis
Cf. TA168 Systems engineering

Cybernetics
Cf. QA75+ Computer science
Cf. QA267+ Machine theory
Cf. QA402.3+ Control theory (Mathematics)
Cf. QP351+ Nervous system and the senses
Cf. TJ212+ Control engineering
Cf. TK7885+ Computer engineering

300
Periodicals, societies, congresses, serial publications

303
Collected works (nonserial)

304
Dictionaries and encyclopedias

305
History

310
General works, treatises, and textbooks

315
Popular works

315.5
Addresses, essays, lectures

316
Study and teaching. Research

Bionics

317
Periodicals, societies, congresses, serial publications

317.5
Collected works (nonserial)

320
General works, treatises, and textbooks

320.5
Juvenile works

321
Addresses, essays, lectures

Self-organizing systems. Conscious automata

325
General works

Machine learning

325.5
General works

325.6
Reinforcement learning

325.7
Computational learning theory

325.73
Deep learning

325.75
Supervised learning

325.78
Back propagation

325.785
Support vector machines

325.787
Transfer learning

327
Perceptron theory
Cf. TK7882.P3 Pattern recognition systems

Artificial intelligence

334
Periodicals, societies, congresses, serial publications

334.2
Dictionaries and encyclopedias

334.5
Collected works (nonserial)
Cybernetics
  Self-organizing systems. Conscious automata
  Artificial intelligence -- Continued
  Philosophy
    Including moral and ethical aspects
  334.7
  General works, treatises, and textbooks
  335
  Juvenile works
  335.4
  Addresses, essays, lectures
  335.5
  Study and teaching. Research
  336
  Data processing
  Distributed artificial intelligence
  337
  General works
  337.3
  Swarm intelligence
  337.5
  Pattern recognition systems
  338
  Truth maintenance systems
  338.8
  Case-based reasoning
  338.85
  Commonsense reasoning
  339
  Default reasoning
  339.19
  Model-based reasoning
  339.2
  Nonmonotonic reasoning
  339.25
  Qualitative reasoning
  340
  Constraints
  341
  Turing test
  342
  Computational intelligence
  343
  Virtual humans
    For works on virtual humans applied to a specific field, see the field
  Information theory
    Cf. P87+ Communication
    Cf. QA268 Coding theory (Mathematics)
    Cf. TK5101+ Telecommunication (General)
    Cf. ZA3038+ Information resources
  350
  Periodicals, societies, congresses, serial publications
  352
  Dictionaries and encyclopedias
  355
  History
  360
  General works, treatises, and textbooks
  365
  Popular works
  367
  Addresses, essays, lectures
  370
  Measurements. Tables, calculations, etc.
  375
  Uncertainty theory
  380
  Noise
  385
  Rate distortion theory
  386
  Statistical methods
  Knowledge representation
  387
  General works
  387.2
  Conceptual structures
  387.3
  Description logics
  387.4
  Ontologies
    Cf. Q175.32.O58 Ontology in the philosophy of science
  387.5
  Semantic networks
  390
  Frames
(500-510) Operations research
  see T57.6+
Mathematics

1. Periodicals, societies, congresses, serial publications
2. Collected works (nonserial)
3. Dictionaries and encyclopedias
4. Addresses, essays, lectures

Philosophy
- Cf. QA9.615 Recursive functions. Recursive arithmetic
- Cf. QA248+ Foundations of arithmetic. Set theory
- Cf. QA267+ Machine theory
- Cf. QA681 Foundations of geometry

5. Periodicals, societies, congresses, serial publications
6. General works, treatises, and textbooks
7. Addresses, essays, lectures
8. Study and teaching. Research

Mathematical logic

<table>
<thead>
<tr>
<th>Number</th>
<th>Subcategory</th>
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</thead>
<tbody>
<tr>
<td>9.A1</td>
<td>Periodicals, societies, congresses, serial publications</td>
</tr>
<tr>
<td>9.A5-Z</td>
<td>General works, treatises, and textbooks</td>
</tr>
<tr>
<td>9.2</td>
<td>Addresses, essays, lectures</td>
</tr>
</tbody>
</table>

- Study and teaching. Research see QA8.7

Classical logical systems
- Including reverse mathematics
- General works
- Propositional calculus
- Predicate calculus
- Infinitary languages

Nonclassical formal systems

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>9.4</td>
<td>General works</td>
</tr>
<tr>
<td>9.45</td>
<td>Many-valued logic</td>
</tr>
<tr>
<td>9.46</td>
<td>Modal logic</td>
</tr>
</tbody>
</table>

- Cf. BC199.M6 Logic

9.47 Intuitionistic mathematics
9.5 Combinatory logic and lambda calculus
9.54 Proof systems

Constructive mathematics

<table>
<thead>
<tr>
<th>Number</th>
<th>Subcategory</th>
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<tbody>
<tr>
<td>9.56</td>
<td>General works</td>
</tr>
<tr>
<td>9.58</td>
<td>Algorithms</td>
</tr>
<tr>
<td>9.59</td>
<td>Computable functions. Computability theory</td>
</tr>
</tbody>
</table>

Recursion theory

- Cf. QA267+ Machine theory
- General works
- Recursive functions. Recursive arithmetic
- Hierarchies
- Unsolvability
- Fuzzy logic

Methodology of deductive systems

<table>
<thead>
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<th>Number</th>
<th>Subcategory</th>
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<tbody>
<tr>
<td>9.65</td>
<td>Decidability. Gödel's theorem. Gödel numbers</td>
</tr>
<tr>
<td>9.67</td>
<td>Completeness</td>
</tr>
<tr>
<td>9.7</td>
<td>Model theory</td>
</tr>
<tr>
<td>9.8</td>
<td>Metamathematics</td>
</tr>
<tr>
<td>9.9</td>
<td>Matrix logic</td>
</tr>
</tbody>
</table>

Algebraic logic

<table>
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<th>Subcategory</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>General works</td>
</tr>
<tr>
<td>10.3</td>
<td>Boolean algebra</td>
</tr>
</tbody>
</table>

- Cf. QA268.5 Switching theory
- Quantum logic

10.4 Information theory in mathematics
10.5 Mathematics as a profession. Vocational guidance
10.7 Social aspects
   Civilization and mathematics see CB455
10.8 War and mathematics
   Study and teaching. Research
      For computer-assisted instruction in mathematics see QA20.C65
      For use of electronic computers in mathematics see QA76.95
      Cf. QA135+ Elementary mathematics

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

12 Addresses, essays, lectures
   By region or country
      United States
13 General works
13.5.A-Z By region or state, A-Z
      Subarrange each state by Table Q7
14.A-Z Other regions or countries, A-Z
      Subarrange each country by Table Q7
16 Special teaching methods and aids
   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
Study and teaching. Research

Special teaching methods and aids
Other methods, A-Z -- Continued
20.M63 Mobile communication systems
20.P49 Physical education
20.P67 Portfolios
20.P7 Programmed instruction
For programmed texts, see QA36.5+ QA101+
20.P73 Project method
20.R43 Reading comprehension
20.R47 Response to intervention
20.T43 Teaching teams
20.U55 Unit method of teaching
20.W43 Web-based instruction
20.W46 Whole brain learning
20.3 Awards, prizes, etc. Competitions

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

Biography
28 Collective
  e.g.
29.G3 Gauss
29.J2 Jacobi
29.N2 Napier
30 Directories
Early works through 1800
30.3 Egyptian
31 Greek
Including translations and commentaries
For Euclid's Elements for use in schools see QA451
32 Medieval
33 1501-1700
35 1701-1800

General works
36 Comprehensive treatises
Textbooks
36.5 Series of textbooks
Advanced
37 1801-1969
37.2 1970-2000
37.3 2001-
Intermediate (without calculus)
39 1801-1969
39.2 1970-2000
39.3 2001-
Elementary see QA101+
40  Handbooks, manuals, etc.
    Popular works see QA93
40.5  Juvenile works
41  Formulas, notation, abbreviations
41.3  Nomenclature, terminology
    Communication of mathematical information
41.4  General works
41.5  Information services
41.6  Computer network resources
    Including the Internet
41.7  Mathematical literature
42  Language. Authorship
    Cf. QA20.M38 Mathematical writing in mathematics study and teaching
43  Problems, exercises, examinations
    Tables
47  Cf. QA281 Interpolation. Extrapolation
    General tables
49  Multiplication tables
    Including squares and cubes, square roots and cube roots, reciprocals
51  Factor tables
    Logarithms. Tables of mathematical functions
    Including trigonometric, hyperbolic, etc.
55  General works
59  Theory and use of logarithms
63  Problem solving
    Instruments and machines
    Including practical mathematics, graphical and numerical calculating
71  General works, treatises, and textbooks
73  Slide rules
74  Computation laboratories
    Calculating machines
    For works on the use of calculators in mathematic instruction see QA20.C34
75  General works
    Electronic computers. Computer science
    Including electronic data processing and computer systems
    For applications in special fields, see the field, e.g. QD39.3.E46, Electronic data processing in chemistry
    Cf. QA267+ Machine theory
    Cf. TK7885+ Computer engineering
75.5  Periodicals, societies, congresses, serial publications
76  General works, treatises, and textbooks
76.15  Dictionaries and encyclopedias
    Communication of computer science information
76.16  General works
76.162  Information services
76.165  Language. Authorship
76.167  Philosophy
76.17  History
    Biography
76.2.A2  Collective
76.2.A3-Z  Individual, A-Z
76.215  Directories
76.23  Juvenile works
76.24  Addresses, essays, lectures
76.25  Computer science as a profession. Vocational guidance
    Study and teaching. Research
Instruments and machines
Calculating machines
Electronic computers. Computer science
Study and teaching. Research -- Continued

76.27
General works
76.28
Problems, exercises, examinations
76.3
Certification of electronic data processing personnel
Class here works on certification in general
For works on certification on special topic, prefer classification with the special topic, e.g.,
QA76.73.J38 Study guide for Java certification

76.33
Computer camps
Laboratories

76.35
General works
76.36.A-Z
Individual laboratories, A-Z
76.38
Hybrid computers
76.4
Analog computers
Digital computers

76.5
General works
76.52
Juvenile works
76.525
Microcomputer workstations
76.527
Network computers
For works on computer network management see TK5105.548+

Computer scheduling

76.529
General works
76.5295.A-Z
Special topics, A-Z
76.5295.A34
Affinity scheduling
76.5295.P37
Parallel scheduling
76.53
Time-sharing data processing
Real-time data processing

76.54
General works
76.545
Transaction systems
76.546.A-Z
Special systems, A-Z
76.546.E84
Ethereum

Online data processing
Including general online information services and general videotex systems

76.55
General works
76.57.A-Z
Special systems, A-Z
76.57.A43
America Online
76.57.A77
AT&T WorldNet
76.57.C65
CompuServe
76.57.D44
DELPHI
76.57.E88
eWorld (Online service)
76.57.G45
GEnie (Videotex system)
76.57.G48
GNN
76.57.M52
Microsoft Network
76.57.M55
Minitel
76.57.P75
Prodigy (Online service)
76.57.P77
ProfNet
76.57.S68
SOURCE (Videotex system)
76.57.T44
TELETEL (Videotex system)
76.57.U43
UMI Online (Videotex system)
76.575
Multimedia systems
Cf. QA76.76.159 Interactive multimedia

76.58
Parallel processing. Parallel computers
76.583
Edge computing
76.585
Cloud computing
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers -- Continued

76.59
Mobile computing
76.5913
Semantic computing
76.5915
Ubiquitous computing
76.592
Wearable computers

Programming
For computer programs and other software see QA76.75+

76.6
General works
76.6115
Juvenile works
76.6117
Choreographic programming
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
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

76.73.C56  Clipper
76.73.C58  CoffeeScript
76.73.C75  CSP
76.73.C87  Curl
76.73.D138 D
76.73.D14  D*
76.73.D23  Dart
76.73.D25  DRL
76.73.D95  Dylan
76.73.E27  EasyLanguage
76.73.E38  ELAN
76.73.E75  ERLANG
76.73.F16  F
76.73.F23  FOCUS
76.73.F25  FORTRAN
76.73.F74  FRED
76.73.G25  GW-BASIC
76.73.G63  Go
76.73.G73  GraphQL
76.73.H37  Haskell
76.73.H57  Hopscotch
76.73.H6  HP-GL/2
76.73.H96  HyperTalk
76.73.I22  INFORMIX-4GL
76.73.J2  J#
76.73.J38  Java
76.73.J39  JavaScript
76.73.J63  Job Control Language
76.73.J7  JR
76.73.J85  Julia
76.73.K63  Kodu
76.73.K67  KornShell
76.73.K68  Kotlin
76.73.L23  LISP
76.73.L62  LogiQL
76.73.L63  LOGO
76.73.L66  LotusScript
76.73.L82  Lua
76.73.M15  M
76.73.M29  Mathematica
76.73.M35  Maude
76.73.M39  MDX
76.73.M53  Microsoft Visual Basic
                        Including Microsoft Visual Basic for applications
76.73.M6  ML
                        MySQL see QA76.73.S67
76.73.N39  NCL
76.73.O115  Objective-C
76.73.O213  OpenCL
76.73.P224  PHP
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

76.73.P25
PL/1
76.73.P32
packetC
76.73.P67
PostScript
   Class here works on designing or writing compilers for PostScript
   For works on using PostScript to control the page appearance of paper documents, see
   Z52.5 or Z250.8.P68
PowerShell see QA76.73.W56
76.73.P75
Processing
76.73.P76
Prolog
76.73.P79
Pseudocode
76.73.P98
Python
76.73.R25
RPG
76.73.R3
R (Computer program language)
76.73.R33
Racket
76.73.R83
Ruby
76.73.R87
Rust
76.73.S15
S
76.73.S27
SAS (Computer program language)
76.73.S28
Scala
76.73.S34
Scheme
76.73.S345
Scratch
76.73.S35
SDL
76.73.S59
SPARK
76.73.S62
SPARQL
76.73.S67
SQL, MySQL
76.73.S95
Swift
76.73.T44
Tcl
76.73.T97
TypeScript
76.73.U63
UPC
76.73.V27
VBScript
   Visual Basic see QA76.73.M53
76.73.W56
Windows PowerShell
76.73.W65
Wolfram language
76.73.X16
X86 assembly language
76.73.X57
XPath
76.73.X575
XQuery
76.73.X58
XSLT
76.73.Z2
Z

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

76.75
Periodicals. Societies. Serials
76.751
Conferences
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
Instruments and machines
  Calculating machines
  Electronic computers. Computer science
  Computer software -- Continued
  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
      Assembly languages. Assemblers see QA76.73.A8
  76.76.A98
    Automatic differentiations
  76.76.C47
    Certification of software
  76.76.C52
    Chatbots
  76.76.C54
    Children's software
  76.76.C64
    Compatibility of software
  76.76.C65
    Compilers
      Including compilers of individual computer programming languages
  76.76.C66
    Component software
      Composite applications see QA76.76.A65
      Computer games see QA76.76.V54
  76.76.C68
    Computer viruses
  76.76.C69
    Configuration management
      Container technologies see QA76.76.S58
  76.76.C73
    Costs
  76.76.D47
    Development
  76.76.D49
    Device drivers
      Including individual device drivers
  76.76.D57
    Disassemblers
      Including decompilers
  76.76.D63
    Documentation of software
      Ecosystems, Software see QA76.76.S62
  76.76.E93
    Evaluation of software
  76.76.E95
    Expert systems
  76.76.F34
    Failures of software
      File conversion software see QA76.9.F48
      Frameworks see QA76.76.S63
  76.76.F75
    Free computer software
      Cf. QA76.76.O62 Open source software
  76.76.G46
    Generators
  76.76.H85
    Human factors
  (76.76.H92)
    Hypermedia systems
      see QA76.76.I59
  76.76.H94
    Hypertext systems
      Including hypertext document markup languages, e. g. HTML (Document markup language), XML (Document markup language), etc.
  76.76.I55
    Install programs
  76.76.I57
    Integrated software
  76.76.I58
    Intelligent agents
  76.76.I59
    Interactive media. Hypermedia
      Cf. QA76.575 Multimedia systems
      Measurement, Software see QA76.76.S65
  76.76.M52
    Microsoft .NET Framework
  76.76.M54
    Middleware
      Including object monitors
  76.76.N38
    NativeScript
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Special topics, A-Z -- Continued
Object-oriented programs see QA76.64

76.76.O62
Open source software

(76.76.O63)
Operating systems
see QA76.77+

76.76.P37
Patterns, Software

76.76.P74
Productivity

76.76.P76
Protection of software

76.76.P77
Prototyping

76.76.Q35
Quality control

76.76.R42
Refactoring of software

76.76.R44
Reliability

76.76.R47
Reusability

76.76.S27
SAP NetWeaver Gateway

76.76.S37
Screen savers

76.76.S375
Self-adaptive software

76.76.S46
Shareware

76.76.S58
Software container technologies

76.76.S62
Software ecosystems

76.76.S63
Software failures see QA76.76.F34

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

76.76.S65
Software maintenance
Including Year 2000 date conversion

76.76.S66
Software measurement

76.76.S69
Software support

76.76.S73
Spyware

76.76.S95
Standards for software

76.76.T45
Systems software

76.76.T47
Teleprocessing monitors

76.76.T48
Termination

76.76.T49
Testing of software

76.76.T55
Text editors
For works on how to use text editors to produce paper documents, see Z52, Z253.3+, or Z253.53+

76.76.T83
Translators

76.76.U84
Utilities

76.76.V47
Verification and validation of software

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

Viruses see QA76.76.C68

76.76.W56
Windows
Class here works on window functionality
For works on individual Microsoft Windows operating systems see QA76.774.A+
Year 2000 date conversion see QA76.76.S64

76.765
Firm-ware

76.77
General works
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Operating systems -- Continued

76.774.A-Z Individual operating systems. By system, A-Z
76.774.A53 Android
76.774.B47 Berkeley BSD
BSD, Free see QA76.774.F74
76.774.D67 DOS
76.774.F74 FreeBSD
76.774.I67 iOS
76.774.L46 Linux
76.774.M33 Mac OS
Macintosh OS see QA76.774.M33
76.774.M43 Microsoft Windows 7
76.774.M434 Microsoft Windows 8
76.774.M435 Microsoft Windows 10
76.774.M48 Microsoft Windows Me
76.774.M53 Microsoft Windows NT
76.774.M55 Microsoft Windows server
76.774.M56 Microsoft Windows Vista
76.774.M58 Microsoft Windows XP
76.774.S65 Solaris
76.774.U28 Ubuntu
76.774.U64 UNIX
Vista see QA76.774.M56
Windows 7 see QA76.774.M43
Windows 8 see QA76.774.M434
Windows 10 see QA76.774.M435
Windows ME see QA76.774.M48
Windows NT see QA76.774.M53
Windows server see QA76.774.M55
Windows Vista see QA76.774.M56
Windows XP see QA76.774.M58

76.8.A-Z Special computers, computer systems, and microprocessors. By name, A-Z
76.8.A54 AN/FSQ-7
76.8.B35 BBC Microcomputer
76.8.B38 BeagleBone Black
76.8.C46 Chromebook
76.8.E53 ENIAC
76.8.I12 IBM 360
76.8.I63 iPad
76.8.I64 iPhone
76.8.K56 Kindle Fire
MacBook see QA76.8.M3
Macintosh
Including MacBook
76.8.M47 Micro:bit
76.8.P53 PLATO
76.8.R15 Raspberry Pi
76.8.S25 Samsung
Including Samsung Galaxy series smartphones
76.8.U6 Univac
76.8.U7 Ural
76.84 Fourth generation computers
Instruments and machines
Calculating machines

Electronic computers. Computer science -- Continued

76.85  Fifth generation computers
76.87  Neural computers. Neural networks
76.875 Artificial immune systems. Immunocomputers
76.88  Supercomputers. High performance computing
  Including heterogeneous computing
76.884  Biocomputers
76.885  Petaflops computers
76.887  Molecular computers. DNA computers
76.889  Quantum computers
76.89  Pen-based computers
76.893  Tablet computers
76.9.A-Z  Other topics, A-Z
76.9.A23  Abstract data types
  Cf. HF5548.37 Security measures in electronic data processing departments
  Cf. TK5105.8855 Internet access control
76.9.A3  Adaptive computing
76.9.A43  Algorithms
76.9.A48  Ambient intelligence
76.9.A73  Architecture, Computer
76.9.A93  Auditing
  Class here works on the auditing of electronic data processing systems and activities
  For works dealing with the auditing of electronic data processing departments see HF5548.35
76.9.A94  Augmented reality. Mixed reality. Virtual reality
  Class here works on entirely digital environments that are experienced by end users, works
  on environments that layer digital content on top of physical environments, and works
  on combined physical and digital content that enables interaction with real-world and
digital objects
  For works on computer simulation of another computer system see QA76.9.V5
76.9.A955  Automatic hypothesis formation
76.9.A96  Automatic theorem proving
76.9.A97  Autonomic computing
76.9.B22  B method
76.9.B32  Backup processing
76.9.B38  Batch processing
76.9.B45  Big data
  Biologically-inspired computing see QA76.9.N37
76.9.B56  Blockchains
76.9.B84  Bulletin boards
  Camps, Computer see QA76.33
  Children and computers see QA76.9.C659
  Civilization and computers see QA76.9.C66
76.9.C55  Client/server computing
76.9.C58  Computational grids
  Computer algorithms see QA76.9.A43
  Computer architecture see QA76.9.A73
76.9.C62  Computer arithmetic
  Computer camps see QA76.33
76.9.C63  Computer capacity
76.9.C64  Computer literacy
  Computer logic see QA76.9.L63
  Computer mathematics see QA76.9.M35
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued

76.9.C643
Computer organization

76.9.C65
Computer simulation
  Cf. T57.62+ Industrial engineering
  Cf. TA343 Engineering mathematics
Computer system failures see QA76.9.F34

76.9.C659
Computers and children
  Cf. LC40.5.C66 Computer-assisted home schooling

76.9.C66
Computers and civilization. Social aspects of computers
Computers and family see QA76.9.F35
Computers and older people see QA76.9.O43
Computers and women see QA76.9.W65

76.9.C67
Constraint databases
Conversion of computer files see QA76.9.F48

76.9.C68
Conversion of computer systems

76.9.C72
Cookies (Computer science)
Crowdsourcing see QA76.9.H84

76.9.C92
Cyberinfrastructure
Data analysis, Quantitative see QA76.9.Q36

76.9.D26
Database design

76.9.D3
Database management
  Cf. QA76.9.D37 Data warehousing

76.9.D314
Database security

76.9.D32
Databases
  Including online databases and non-relational databases
  Cf. QA76.9.W43 Web databases

76.9.D33
Data compression

76.9.D335
Data encryption

76.9.D337
Data entry

76.9.D338
Data integration

76.9.D3385
Data logging. Event logging
  Class here general works on software generated lists of events
  For works on data logging equipment and logs used in a specific field, see the field, e.g.,
  QH324.9.B5 Biotelemetry
  For data loggers see TK7895.D28

76.9.D34
Data marts

76.9.D343
Data mining
  Including OLAP technology and multimedia data mining

76.9.D345
Data preparation

76.9.D348
Data recovery

76.9.D35
Data structures
  Cf. QA76.9.C72 Cookies (Computer science)

76.9.D37
Data warehousing

76.9.D43
Debugging in computer science
  Including structured walkthrough

76.9.D5
Distributed processing

76.9.D6
Documentation
  Cf. QA76.76.D63 Software documentation

76.9.E25
Economic aspects

76.9.E53
End-user computing

76.9.E57
Entertainment computing

76.9.E58
Environmental aspects

76.9.E77
Error messages
Instruments and machines
Calculated machings
Electronic computers. Computer science
Other topics, A-Z
Ethical aspects see QA76.9.M65
Evaluation of computer performance
76.9.E94
Evaluation of data processing activities
76.9.E95
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
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
Mixed reality see QA76.9.A94
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
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued

76.9.P75 Psychological aspects
76.9.Q36 Quantitative research. Quantitative data analysis
76.9.Q4 Question-answering systems
76.9.R45 Remote job entry
76.9.R48 Reversible computing
76.9.S54 Security, Computer see QA76.9.A25
76.9.S57 Security, Data base see QA76.9.D314
76.9.S63 Soft computing
76.9.S64 Software maintenance see QA76.76.S64
76.9.S66 Standards
76.9.S8 Structured techniques
76.9.S84 Structured walkthrough see QA76.9.D43
76.9.S88 System design
76.9.S9 System failures see QA76.9.F34
76.9.S48 Systems migration
76.9.T43 Technical support
76.9.T48 Text processing
76.9.T7 Transborder data flow
76.9.U83 User interfaces
76.9.V5 Virtual computer systems
76.9.V65 Virtual reality see QA76.9.A94
76.9.W43 Voice computing
76.9.W65 Web databases
76.9.W67 Computers and women
76.95 Use of electronic computers in mathematics
77 General works
81 Mechanical aids in higher analysis
85 Planimeters
90 Graphic methods (General). Nomography
93 Mathematical recreations
95 Miscellaneous geometrical instruments
95 For Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc. see QA491
99 Miscellany and curiosa
Elementary mathematics. Arithmetic
   Including basic mathematical concepts for the elementary grades
   Cf. QA248+ Foundations of arithmetic
Textbooks
101 Through 1845
103 1846-1900
106 1901-1960
107 1961-2000
107.2 2001-
109 Special aspects of the subject as a whole
111 Rapid calculators and short cuts
113 Counting
   Class here works dealing with counting, including counting books and other forms of materials
   For works dealing with numeration, the concept of numbers, and numeration systems see
   QA141+
115 Elementary operations
   e.g. addition, subtraction, multiplication, division
117 Fractions
   Including proportion, ratio
119 Roots
   Including square root, cube root
Study and teaching
   Cf. LC4621 Education of children with mental disabilities
General works, treatises, and textbooks
135 Through 1960
135.5 1961-2000
135.6 2001-
137 Teaching fractions
139 Problems, exercises, examinations
Numeration, number concept, numeration systems
   Cf. QA241+ Theory of numbers
   Cf. QA297+ Numerical analysis
141 General works, treatises, and textbooks
141.15 Number concept (Elementary)
   Cf. BF456.N7 Numbers. Mathematics (Psychology)
141.2 History
   Cf. GN476.15 Primitive numeration
   Cf. P211+ History of writing
141.3 Juvenile works
141.35 Decimal system
   Class here expository and historical works on the decimal system
   For tables, arithmetic, and other works with values expressed mainly in the decimal system, see
   the special class numbers that are provided for particular fields, e.g. QA101 Arithmetic. For
   tables, arithmetic, etc., for other special systems, see QA141.4+
141.4 Binary system
Duodecimal system
141.5.A1 Periodicals, societies, congresses, serial publications
141.5.A2-Z General works, treatises, and textbooks
141.6 Octal system
141.8.A-Z Other special systems, A-Z
141.8.Q5 Quinary system
141.8.S4 Sexadecimal system
141.8.S5 Sexagesimal system
141.8.T45 Ternary system
141.8.V54 Vigesimal system
Elementary mathematics. Arithmetic -- Continued

(145)
  Algebra and arithmetic
      see QA101+

Algebra

150  Periodicals, societies, congresses, serial publications
151  History
      Textbooks
         Elementary
            Through 1970
152   1971-2000
152.3  2001-
       Advanced
       Through 1970
154   1971-2000
154.3  2001-
154.8  Early works to 1800
155  General works and treatises
      Including higher algebra
155.15  Juvenile works
155.2  Addresses, essays, lectures
155.5  Special aspects of the subject as a whole
155.7.A-Z  Special topics, A-Z
155.7.E4  Electronic data processing
157  Problems, exercises, examinations
      Study and teaching. Research
159  General works
159.2  Outlines, syllabi, etc.
161.A-Z  Miscellaneous elementary topics, A-Z
161.B48  Binomial coefficients
161.B5  Binomial theorem
161.E95  Exponents
161.F3  Factors
         Logarithms see QA59
161.P59  Polynomials
162  Abstract algebra
      Cf. QA10.3 Boolean algebra
      Combinatorics. Combinatorial analysis
164  General works
164.5  Problems, exercises, etc.
164.8  Enumeration problems. Generating functions
      Cf. QA353.G44 Special functions
164.9  Identities
165  Permutations. Combinations. Partitions
      Including magic squares and magic cubes
      Graph theory
      Cf. QA612.18 Map-coloring problem
166  General works
166.14  Bipartite graphs
166.145  Cayley graphs
166.15  Directed graphs
166.16  Perfect graphs
166.165  Quantum graphs
166.17  Random graphs
166.175  Fuzzy graphs
166.18  Hamiltonian graph theory
166.185  Intersection graph theory
Algebra
Combinatorics. Combinatorial analysis
Graph theory -- Continued
166.19
Eulerian graph theory
166.195
Topological graph theory
166.197
Graph labelings
Including magic labelings
166.2
Trees
166.22
Paths and cycles
166.23
Hypergraphs
166.24
Reconstruction
166.242
Representations of graphs
166.243
Graph connectivity
166.245
Graph algorithms
166.247
Graph coloring
166.249
Tutte polynomial
Design and configurations
166.25
General works
166.3
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
169
Homological algebra
Including functors, categories
(171)
Group theory
see QA174+
Ordered sets
171.48
General works
171.485
Partially ordered sets
171.49
Semilattices
171.5
Lattice theory
Cf. QD921+ Crystal lattices
Ordered algebraic structures
172
General works
172.4
Ordered groups
Group theory
Cf. QA172.4 Ordered groups
Cf. QA385+ Continuous groups
Cf. QA387 Topological groups. Lie groups
Cf. QA613.7 Topological transformation groups
Cf. QA614.97 Pseudogroups and deformations of structures
Cf. QC174.17.G7 Quantum theory
Cf. QD455.3.G75 Physical chemistry
174
Periodicals, societies, congresses, serial publications
174.2
General works
174.5
Juvenile works
Study and teaching. Research
174.6
General works
174.62.A-Z
Special topics, A-Z
174.62.C65
Computer-assisted instruction
174.7.A-Z
Special topics, A-Z
Algebra
Group theory
Special topics, A-Z -- Continued
174.7.D36 Data processing
174.7.S96 Symmetry
175 Permutation groups
176 Representations of groups
177 Finite groups
177.4 Formal groups
178 Infinite groups
179 Linear algebraic groups
180 Abelian groups
181 Groupoids
181.5 Quasigroups
182 Semigroups
182.5 Combinatorial group theory
183 Geometric group theory
Linear and multilinear algebra. Matrices
Cf. QA243 Bilinear forms
General works, treatises, and textbooks
184 To 2000
184.2 2001-
184.5 Problems, exercises, examinations
185.A-Z Special topics, A-Z
185.C65 Computer-assisted instruction
185.D37 Data processing
186 Vector spaces
187 Linear dependence
Matrices
188 General works
191 Determinants
192 Elimination
193 Eigenvalues and eigenvectors
195 Proximity matrices
196 Quaternions
196.5 Random matrices
196.7 Sylvester equations
197 Triangularization
199 Clifford algebras
199.5 Multilinear algebra. Tensor products
Vector and tensor algebra
Cf. QA433 Vector and tensor analysis
200 General works
201 Invariants
205 Exterior algebra. Ausdehnungslehre
Theory of equations
211 General works, treatises, and textbooks
212 Roots. Symmetric functions
Cf. QA119 Elementary mathematics
214 General resolution of equations
Including simultaneous equations
215 Cubic, quadratic, biquadratic, and other particular equations
218 Numerical solutions
219 Graphic algebra
Approximation theory
Cf. QA297+ Numerical analysis
Algebra
  Approximation theory -- Continued
  General works
  Radial basis functions
  Spline theory
  Number theory
    General works, treatises, and textbooks
  221 General works
  223 Radial basis functions
  224 Spline theory
  241 General works
  241.5 Geometry of numbers
  241.7 Probabilistic number theory
  242 Divisibility. Linear congruences. Factorization. Quadratic residues. Diophantine analysis
    Arithmetical algebraic geometry
    General works
    242.5 Arakelov theory
  243 Forms
    Including quadratic, bilinear forms
    Higher congruences, residues. Fermat's theorem
  244 Cyclotomy. Application of functions to arithmetic
  245 Distribution of primes. Special numerical functions, etc.
    Sequences of integers
    Exponential and character sums
    General works
    246.7 Special sums, A-Z
    246.8.A-Z Gaussian
    246.8.G38 Kloosterman
    246.8.T75 Trigonometric
  247 Algebraic fields. Algebraic numbers
    General works
    Modular fields. Finite fields
    General works
    247.3 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
    General works
    248 Elementary textbooks
    248.5 Fuzzy sets
    Recursive functions. Recursive arithmetic see QA9.6+
  251 Universal algebra
    Cf. QA184+ Linear and multilinear algebra
    Commutative rings and algebras
    Group rings
    Local rings
    Noncommutative rings and algebras
    Associative rings and algebras
    Nonassociative rings and algebras
    General works
    Lie algebras. Lie superalgebras
    Cf. QA387 Lie groups
    Jordan algebras
    Complex numbers
    Matrices
    see QA188+
Algebra -- Continued

Machine theory. Abstract machines. Abstract automata

- Cf. QA9.6+ Recursive functions
- Cf. QA75.5+ Electronic computers
- Cf. QA402.3+ Control theory

267
General works, treatises, and textbooks

267.3
Formal languages

- Cf. P98+ Language data processing

267.5.A-Z
Special types of machines, A-Z

- 267.5.C45 Cellular automata
- 267.5.F89 Fuzzy automata
- 267.5.P7 Probabilistic automata
- 267.5.S4 Sequential machines
- 267.5.T45 Temporal automata

267.7
Computational complexity. Kolmogorov complexity

268
Coding theory

- Including the mathematics of cryptography

268.5
Switching theory

- Cf. QA10.3 Boolean algebra
- Cf. TK7868.S9 Switching circuits

Game theory

269
General works

- Cf. T57.92 Industrial engineering

270
Games of strategy

271
Games of chance

272
Differential games

272.4
Cooperative games

272.5
Noncooperative games

272.6
Domination games

Probabilities

- Cf. T57.3+ Industrial engineering
- Cf. TA340 Engineering mathematics

273.A1
Periodicals, societies, congresses, serial publications

273.A3
Dictionaries and encyclopedias

273.A35
Philosophy

273.A4
History

273.A5-Z
General works, treatises, and textbooks

273.15
Popular works

273.16
Juvenile works

273.18
Addresses, essays, lectures

273.19.A-Z
Special topics, A-Z

273.19.E4
Electronic data processing

Study and teaching. Research

273.2
General works

273.25
Problems, exercises, examinations

273.26
Computer-assisted instruction

273.27
Programmed instruction

273.3
Handbooks, tables, formulas, etc.

273.4
Axioms and foundations

273.43
Probability theory on algebraic and topological structures

273.45
Combinatorial probabilities

273.5
Geometric probability. Stochastic geometry. Random sets

273.6
Distributions. Characteristic functions

273.67
Limit theorems
Probabilities -- Continued
Stochastic processes
   Cf. T57.33 Renewal theory
   Cf. T57.35+ Renewal theory
   Cf. T57.9 Queuing theory
274.A1  Periodicals, societies, congresses, serial publications
274.A5-Z General works, treatises, and textbooks
274.12   Problems, exercises, etc.
274.13   Axioms and foundations
           Stochastic analysis
           General works
           Stochastic integrals
           Stochastic inequalities
           Stochastic sequences
           Stochastic differential equations
           Stochastic partial differential equations
           Stochastic integral equations
           Random operators
           White noise theory
           Stationary processes
           Gaussian free field
           Gaussian processes
           Point processes
           Random fields
           Random measures
           Martingales. Semimartingales
           Learning models
           Markov processes. Markov chains
           General works
           Random walks
           Diffusion processes. Brownian motion processes
           Cf. QC183 Constitution and properties of matter and anti-matter
274.755 Jump processes
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
Mathematical statistics
   Study and teaching. Research -- Continued
   276.19  Outlines, syllabi
   276.2  Problems, exercises, examinations
   276.22  Computer-assisted instruction
   276.23  Geometrical models
   276.25  Handbooks, tables, formulas, etc.
           Including tables of random numbers
   276.3  Graphic methods
   276.4  Data processing
           Class here works on the use of data processing and computers in mathematical statistics in general
           For the application of statistical data processing and statistical analysis programs in special fields see the field, e.g. HF5415.125, Marketing; T57.5, Industrial engineering
   276.45.A-Z  Special programs or languages, A-Z
   276.45.J56  JMP (Computer file)
   276.45.M38  Mata
   276.45.M53  Microsoft Excel
   276.45.M56  Minitab
   276.45.R3  R (Computer program language)
   276.45.S27  SAS (Computer program language)
   276.45.S28  SCA statistical system
   276.45.S83  Statistica
   276.5  Fuzzy statistics
   276.6  Sampling theory and methods
   276.7  Sampling distribution
   276.74  Tolerance regions. Confidence intervals
   276.8  Estimation theory
           Including measurement uncertainty
   276.9  Minimum message length. Minimum description length
           Testing of hypotheses
   277  General works
   277.3  Chi-square test
   277.5  Observed confidence levels
   278  Multivariate analysis
   278.2  Regression analysis. Correlation analysis
   278.3  Path analysis. Structural equation modeling
   278.4  Paired and multiple comparisons
   278.5  Factor analysis. Principal components analysis. Correspondence analysis
   278.55  Cluster analysis
   278.6  Latent structure analysis
   278.65  Discriminant analysis
   278.7  Order statistics
   278.75  Ranking and selection
   278.8  Nonparametric methods
           Analysis of variance and covariance. Analysis of means. Experimental design
   279  General works
   279.2  Prediction analysis
   279.4  Decision theory
   279.5  Bayesian statistics
   279.6  Fuzzy decision making
   279.7  Multistage decision procedures. Sequential analysis
   280  Time series analysis
281  Interpolation. Extrapolation
   Cf. QA47+ Mathematical tables
   Cf. QA221+ Approximation theory
   Cf. QA297+ Numerical analysis

292  Sequences
   Cf. QA246.5 Sequences of integers

295  Series
   Including infinite products and other infinite processes

   Numerical analysis
   Cf. QA221+ Approximation theory

297  General works, treatises, and textbooks
297.3  Problems, exercises, etc.
297.4  Discrete mathematics
297.5  Numerical approximation
   For numerical solution to differential equations, including initial value problems and boundary
   value problems see QA370+
   Cf. QA71+ Instruments and machines
   Cf. QA90 Graphic methods. Nomography
   Cf. QA218 Numerical solutions of algebraic equations
   Cf. QA275 Least squares
   Cf. QA281 Interpolation. Extrapolation

297.55  Relaxation methods
297.6  Smoothing. Curve fitting
297.65  Rounding
297.7  Roundoff errors
297.75  Interval analysis
297.8  Iterative methods
298  Numerical simulation. Monte Carlo method
   Cf. T57.62+ Industrial engineering

299  Numerical differentiation
   Numerical integration

299.3  General works
299.4.A-Z  Special formulas, A-Z
299.4.C83  Cubature formulas
299.4.G3  Gaussian quadrature formulas

Analysis
   Including calculus, functional analysis, functions, differential equations

299.6  Periodicals, societies, congresses, serial publications

299.8  General works
299.82  Nonstandard analysis
300  General works, treatises, and textbooks
300.5  Addresses, essays, lectures
301  Problems, exercises, examinations
302  Early works through 1800

Calculus
   Cf. QA431 Calculus of differences
   General works, treatises, and textbooks

303  Through 2000
303.2  2001-
303.3  Study and teaching. Research
303.5.A-Z  Special topics, A-Z
303.5.C65  Computer-assisted instruction
303.5.D37  Data processing
   Differential calculus
Analysis
  Calculus
    Differential calculus -- Continued
      General works
      Problems, exercises, examinations
    Integral calculus
      General works
      Problems, exercises, examinations
      Tables of integrals
      Miscellaneous special topics
      Measure and integration
        Including Lebesgue integrals
      General works
    Fractional calculus
      Calculus of variations
        Cf. QA402.3+ Control theory
      General works
    Functional analysis
      Periodicals, societies, congresses, serial publications
      General works
      Addresses, essays, lectures
      Nonlinear functional analysis
      Topological linear spaces
        Normed linear spaces. Banach spaces
        Inner product spaces. Hilbert spaces
        Indefinite inner product spaces
      Function spaces
      Theory of distributions
      Measures, integration, derivatives
      Topological algebras. Banach algebras
      Operator theory
        General works
        Linear operators
        Differential operators
          General works
        Partial differential operators
        Narrow operators
        Integral operators
        Pseudodifferential operators
        Nonlinear operators
        General works
        Fixed point theory
          Cf. QA612.24 Fixed points and coincidences

Theory of functions
  General works, treatises, and advanced textbooks
  Elementary textbooks
  Functions of real variables
  Functions of complex variables
  Riemann surfaces
    Including multiform, uniform functions
Analysis
   Theory of functions
   Riemann surfaces -- Continued
   General works
   Fuchsian groups
   Teichmüller spaces
   Algebraic functions
   Logarithmic, circular, and exponential functions
   Elliptic functions. Elliptic integrals. Modular functions
   Abelian functions. Theta functions
   Including hyperelliptic functions
Special functions
   Cf. QA406 Spherical harmonics
   Cf. QA408 Bessel functions
   Cf. QA409 Lamé functions
   General
   Other special functions, A-Z
   Automorphic. Fuchsian
   C-functions
   Concave functions
   Entire functions
   Fuchsian see QA353.A9
   Gamma
   Generating functions
      Cf. QA164.8 Combinatorial analysis
   Hypergeometric
   Kernel functions
   Periodic functions
   Transcendental functions
   Miscellaneous special topics
600
   Geometric principles of analysis. Mapping of regions. Conformal representation
   Cf. QA646 Differential geometry
Differential equations
   Periodicals, societies, congresses, serial publications
   General works, treatises, and textbooks
   Study and teaching. Research
   General works
   Outlines, syllabi, etc.
   Computer-assisted instruction
   Special topics, A-Z
   Collective behavior
   Data processing
   Ordinary differential equations (linear and nonlinear)
   Differential-algebraic equations
   Differential-difference equations
   Partial differential equations (first order)
   Partial differential equations (second and higher orders)
   Evolution equations
      Cf. QC20.7.E88 Mathematical physics
   Degenerate differential equations
   Initial value problems
   Inverse problems
   Boundary value problems
   Bifurcation theory
   Differential forms and invariants
      Cf. QA614.46 Pfaffian systems
Analysis -- Continued
Continuous groups (of transformations). Infinitesimal transformations
385
General works
387
Topological groups. Lie groups
Cf. QA613.7 Topological transformation groups
Cf. QA613.8 Hopf algebras
Cf. QA614.97 Pseudogroups and deformations of structures
Analytical methods used in the solution of physical problems
Including mathematical physics (mathematical theory only)
Cf. QC19.2+ Mathematical physics
Cf. TA329+ Engineering mathematics and engineering analysis
401
General works, treatises, and textbooks
System analysis
Cf. T57.6+ Industrial engineering
Cf. TA168 Systems engineering
402
General works
402.2
Decomposition method
Control theory (General and linear)
Cf. TJ212+ Automatic control
402.3
General works
402.35
Nonlinear control theory
402.37
Stochastic control theory
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
General works
404
Fourier series
404.5
Orthogonal series. Orthogonal functions and polynomials
Potential theory. Pluripotential theory
Cf. QA825+ Analytic mechanics
404.7
General works
405
Harmonic functions
406
Laplace and Legendre functions (Spherical harmonics)
408
Bessel functions (Cylindrical harmonics)
409
Lamé functions (Ellipsoidal harmonics)
411
Toroidal and other harmonics
425
Dirichlet's problem and analogous problems
427
Nonlinear theories. Nonlinearity
431
Difference equations and functional equations. Integral equations. Calculus of differences
432
Operational calculus. Laplace transformation
433
Vector and tensor analysis. Spinor analysis. Scalar field theory
Geometry
Cf. QA681 Foundations of geometry
440
Periodicals, societies, congresses, serial publications
441
Dictionaries and encyclopedias
442
Philosophy
443
Collected works (nonserial)
443.5
History
444
Early works through 1800
Geometry -- Continued

445  General works, treatises, and textbooks
445.5 Juvenile works
446 Addresses, essays, lectures
447 Special aspects of the subject as a whole
448.A-Z Special topics, A-Z
448.D38 Data processing

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

Study and teaching. Research
461 General works, treatises, and textbooks
   Special teaching methods and aids
462 General works
462.2.A-Z Special types, A-Z
462.2.C65 Computer-assisted instruction
462.2.G34 Games
463 Laboratory manuals
464 Practical geometry. Geometrical drawing
   Cf. QA497 Higher geometrical drawing (Plane)
   Cf. QA501+ Descriptive geometry
465 Measurement
   Famous problems
466 General works
467 Circle squaring
468 Trisection of the angle
469 Duplication of the cube
471 Projective geometry
   Cf. QA554 Projective methods (Analytic geometry)

Modern geometry. Inversions
473 General works
474 Plane
475 Solid
477 Affine geometry

Special topics in plane geometry
481 Axioms. Postulates. Logic
   Cf. QA681 Foundations of geometry
482 Straight lines, angles, triangles, etc.
483 Curves. Ovals
484 Circle
485 Conics
491 Special topics in solid geometry
   Including Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc.
497 Higher geometrical drawing (Plane)

Descriptive geometry
   Cf. T351+ Mechanical drawing
501 General works, treatises, and textbooks
501.5 Problems, exercises, examinations
   Parallel projection
Geometry
  Descriptive geometry
    Parallel projection -- Continued
      General works
      Orthogonal projection on two planes
        General works
      Isometric projection
      Oblique projection
    Central projection
      General works
    Perspective
      Class here geometrical works only
      Cf. NA2710 Architecture
      Cf. NC748+ Drawing
      Cf. T369 Mechanical drawing

519 Shades and shadows
      Class here geometrical works only
      Cf. NC755 Drawing

520 Spherical projection
      Cf. GA110+ Map projection

521 Miscellaneous special topics

529 Geometry and trigonometry (combined)
  Trigonometry
    General works, treatises, and textbooks
    Plane
    Spherical
    Problems, exercises, examinations
    Miscellaneous special topics

531 Analytic geometry
  General works, treatises, and textbooks
  Plane
  Conic sections
  Solid
  Projective methods
  Problems, exercises, examinations
  Coordinates
  Equipollence
  Straight line and circle. Triangle
  Conics
  Curves
  Quadric surfaces
  Maxima and minima

551 Algebraic geometry
  General works, treatises, and textbooks
  Higher algebraic curves
  General works, treatises, and textbooks
  Plane curves
  Special curves, A-Z
  Cubic
  Elliptic
  Isothermic
  Modular
  Orthogonal
  Quartic
  Quintic
  Smooth affine

561.5 Data processing
552 Plane. Conic sections
553 Solid
554 Projective methods
555 Problems, exercises, examinations
556 Coordinates
556.5 Equipollence
557 Straight line and circle. Triangle
559 Conics
559.5 Curves
561 Quadric surfaces
563 Maxima and minima

39
Geometry
Algebraic geometry -- Continued
Higher algebraic surfaces
571 General works, treatises, and textbooks
573 Special surfaces
Including cubic, quartic surfaces
581 Skew algebraic curves
Including twisted cubics, curves of double curvature
582 Tropical geometry
Transformations, correspondences, and general methods for algebraic configurations
Including collineation, correlation
601 General works, treatises, and textbooks
602 Cremona transformations. Quadratic transformations
603 Classification of curves and surfaces. Groups of points and curves
605 Applications of transcendental functions to curves and surfaces
607 Enumerative geometry. Systems of curves and surfaces
608 Connexes, complexes, congruences. Line geometry
For algebraic configurations in hyperspace see QA691+
609 Conformal geometry
Topography
611.A1 Periodicals, societies, congresses, serial publications
611.A3 History
611.A34-Z General works, treatises, and textbooks
611.13 Juvenile works
611.15 Addresses, essays, lectures
Study and teaching. Research
611.17 General works
611.19 Problems, exercises, examinations
611.2 Fuzzy topology
611.21 Imbeddings
611.23 Compactifications. Compact spaces
611.234 Realcompactness. Realcompactification. Realcompact spaces
611.24 Proximity spaces
611.25 Uniform spaces. Quasi-uniform spaces
611.28 Metric spaces
611.29 Isometries, contractions, expansions
611.3 Other miscellaneous topological spaces
For linear topological spaces see QA322
611.35 CW complexes
611.5 Topological dynamics
Including those special aspects relating to ergodic theory
Cf. QA614.8+ Differentiable dynamical systems
611.7 Fixed point theorems
Cf. QA329.9 Nonlinear operators
Algebraic topology. Combinatorial topology
Cf. QA166+ Graph theory
612 General works
Low-dimensional topology
Cf. QA613.2 Manifolds and cell complexes
612.14 General works
612.18 Map-coloring problem
612.19 Four-color problem
Knot theory. Link theory
612.2 General works
612.23 Braid theory
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**Manifolds and cell complexes**

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**Global analysis. Analysis on manifolds**

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Topology

Global analysis. Analysis on manifolds -- Continued

614.7
Critical point theory

614.73
Harmonic maps

Differentiable dynamical systems

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

614.8
General works

614.813
Attractors

614.82
Flows

614.83
Hamiltonian systems

614.833
Nonholonomic dynamical systems

614.835
Random dynamical systems

614.84
Shadowing systems

614.85
Symbolic dynamics

614.86
Fractals. Fractal analysis

Partial differential equations and differential operators on manifolds

614.9
General works

614.92
Index theorems

614.95
Spectral geometry

614.97
Pseudogroups and deformations of structures

Cf. QA387 Lie groups

Infinitesimal geometry

615
General works, treatises, and textbooks

Of curves

621
General works

623
Kinematic geometry. Roulettes

624
Curvature

626
Rectification and quadrature

628
Transcendental curves

Of surfaces

631
General works

634
Curvature

636
Areas and volumes

638
Transcendental surfaces

639
Differential geometry of congruences, etc.

Convex geometry

639.5
General works

640
Convex sets and geometric inequalities

640.3
Convex polyhedra. Convex polytopes

640.5
Convexity spaces

Discrete geometry

640.7
General works

640.72
Aperiodic tilings

640.77
Rigidity

Differential geometry

Including general theory of surfaces

641
General works, treatises, and textbooks

642
Problems, exercises, examinations

643
Curves on surfaces

644
Minimal surfaces. Nets of plane curves

645
Surfaces determined by relations of curvature, etc.

646
Conformal and other representations of surfaces

Cf. GA110+ Map projection
Cf. QA360 Mapping of regions, conformal representation
Geometry

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648
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648.5
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649
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660
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665
Symplectic geometry. Contact geometry
Global differential geometry

Cf. QA614+ Global analysis. Analysis on manifolds

670
General works

671
Global Riemannian geometry

671.5
Spin geometry

672
Integral geometry

681
Foundations of geometry

685
Non-Euclidean geometry

689
Generalized spaces

Hyperspace

699
General works

Analytic mechanics

Class here mathematical works only

Cf. QC120+ Descriptive and experimental mechanics

Cf. TA349+ Applied mechanics

801
Periodicals, societies, congresses, serial publications

801.2
Collected works (nonserial)

801.5
Dictionaries and encyclopedias

801.6
Philosophy

802
History

Including general history of mechanics

803
Newton's Principia and commentaries

804
Early works through 1800

805
General works, treatises, and advanced textbooks

807
Elementary textbooks

807.5
Addresses, essays, lectures

808
Special aspects of the subject as a whole

808.2
Continuum mechanics

Cf. QC155.7 Fluid dynamics

808.5
Relativistic mechanics

808.8
Study and teaching

809
Problems, exercises, examinations

810
Handbooks, tables, formulas, etc.

Statics

Cf. TA351 Engineering

821
General works, treatises, and textbooks

823
Composition and resolution of forces at a point

Attractions and potential

Cf. QA404.7+ Potential theory

Cf. QC570+ Electrostatics

825
General works, treatises, and textbooks

827
Ellipsoids and other special systems

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

835
Chains and flexible surfaces. Catenary

839
Geometry of masses. Center of mass. Moments of inertia
Analytic mechanics -- Continued

Kinematics
- Including composition of motions and displacements, relative motions, moving axes, theory of screws
  Cf. QA623 Roulettes
  Cf. QC231 Kinematics (Physics)
  Cf. TJ175 Kinematics of machinery

841 General works
842 Relativistic kinematics

Dynamics
- Cf. QC133+ Descriptive and experimental mechanics
- Cf. UF820+ Motion of projectiles (Ballistics)

843 Periodicals, societies, congresses, serial publications
845 General works, treatises, and advanced textbooks
846 Elementary textbooks

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

851 General works, treatises, and textbooks
852 Special aspects of the subject as a whole
  Including resistance, friction
853 Orbital and constrained motion
855 Motion of surfaces

Rigid dynamics
861 General works, treatises, and textbooks
862.A-Z Special systems, A-Z
  862.G9 Gyroscope
  862.P4 Pendulum
  862.P5 Pistons
  862.P76 Projectiles
  862.T7 Top
863 Miscellaneous special topics

Theory of vibrations. Oscillations
- Cf. QA935+ Vibrations of elastic bodies

865 General works
867 Harmonic motion
867.5 Nonlinear oscillations
871 General methods in dynamics
  Including Lagrange's equations, Hamilton's equations, least action, stability of systems

Mechanics of deformable bodies

Fluid mechanics
- Cf. QC120+ Descriptive and experimental mechanics
  Cf. TA357+ Applied fluid mechanics

901 General works, treatises, and textbooks
903 Problems, exercises, examinations

Hydrostatics
905 General works, treatises, and textbooks
907 Miscellaneous special topics
  Including floating bodies, etc.
  Cf. VM761+ Stability of ships

Fluid dynamics. Hydrodynamics
- Cf. TC160+ Hydraulics
911 General works, treatises, and textbooks
912 Relativistic fluid dynamics
913 Kinematics of fluids. Irrotational motions
Analytic mechanics
  Mechanics of deformable bodies
Fluid mechanics
  Fluid dynamics. Hydrodynamics -- Continued
  Magnetohydrodynamics. Magnetofluid dynamics
    Cf. QC717+ Ion flow dynamics
    Cf. QC718.5.M36 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
  Burbles
  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. Periodicals, societies, congresses, serial publications
   - Museums. Exhibitions

2. A1
   - General works

2. A2-Z
   - By region or country, A-Z
     - Subarrange each country by Table Q5

3. Collected works (nonserial)
   - Observations
     - Including serial collections issued by individual observatories.
     - For annual reports see QB82.A+

4. A-Z
   - By name of issuing observatory, A-Z

4. 9. A-Z
   - By region or country, A-Z

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

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

7. Early through 1800
   - 1801-

8. A-Z
   - Nautical and air (or aeronautical) almanacs. By country, A-Z

9. Other yearbooks
   - General tables

11. Early through 1800
    - 1801-

12. Dictionaries and encyclopedias
    - Communication in astronomy

14. 2
    - General works

14. 25
    - Information services

14. 3
    - Computer network resources
      - Including the Internet

14. 5
    - Philosophy

15. History
    - General works
    - Ancient

16. General works
    - Cf. CE21+ Ancient chronology
    - Cf. GN799.A8 Astronomy (Prehistoric archaeology)

17. Chinese

18. Hindu

19. Assyro-Babylonian, etc.
    - Jewish see QB34

20. Egyptian

21. Greek

22. Roman

22. 2
    - Celtic

22. 3
    - Etruscan

23. Medieval
    - Including Arabic astronomy

24. General works
    - Astrology

25. History
    - Cf. BF1671+ Occult sciences

26. Medieval works
    - Cf. BF1680+ Occult sciences
History
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Astrology -- Continued
Modern astrology see BF1651+
Modern
General works
Renaissance through 1700
18th century
19th-20th centuries
By region or country, A-Z
Jewish astronomy
Māori astronomy see DU423.A85
Women in astronomy. Women astronomers
Biography
Collective
Individual, A-Z
e.g.
Brahe
Copernicus
Galileo
Directories
Early works through 1700
Cf. GA6 Cosmography
Cf. VK551 Navigation (Early works)
General works, treatises, and advanced textbooks
Cf. QB500 Descriptive astronomy
1701-1800
1801-1969
1970-2000
2001-
Popular works
Through 1969
1970-2000
2001-
Elementary textbooks
To 2000
2001-
Juvenile works
Cf. QB63 Stargazers' guides
Special aspects of the subject as a whole
Addresses, essays, lectures
Special topics, A-Z
Electronic data processing
Imaging systems
Light pollution
Mathematics
Statistical methods see QB149
Astronomy as a profession. Vocational guidance
Miscellany and curiosa
Extraterrestrial life
Cf. CB156 Terrestrial, evidence of interplanetary voyages
Cf. P98.7 Extraterrestrial linguistics
Astronomical myths, legends, and superstitions
see GR625
Study and teaching. Research
General works
Study and teaching. Research -- Continued

Outlines, syllabi

Problems, exercises, examinations

Laboratory manuals

Stargazers’ guides

Observers’ handbooks

Cf. TL796.8 Artificial satellites

Outlines, syllabi

Problems, exercises, examinations

Laboratory manuals

Stargazers’ guides

Observers’ handbooks

Atlases and charts

Astronomical globes

Cf. GA12 Manual for globes

Miscellaneous models

Pictorial works and atlases

Planetariums

Including orreries

General works

By region or country, A-Z

Under each country:

.x General works

.x2A-.x2Z Individual planetariums. By city, A-Z

Observatories

Cf. QB479.A2+ Radio observatories

Cf. QB500.267+ Orbiting astronomical observatories

General works

By region or country, A-Z

Under each country:

.x General works

.x2A-.x2Z Individual observatories. By place, A-Z

Including description, history, annual reports, individual named telescopes, etc.

Observatory buildings

Including domes, piers, rising floors, chairs

Astronomical instruments

Including description, theory, adjustment

Periodicals, societies, congresses, serial publications

Biography of instrument makers

Collective

Individually, A-Z

Early. Astrolabes, etc.

Including descriptions of early observatories

Modern

History

General works, treatises, and textbooks

Catalogs

Telescopes. Objectives. Mirrors

Including homemade telescopes, optics, accessories

For individual named telescopes in observatories see QB82.A+

Cf. QB479.2 Radio telescopes

Cf. QB500.268 Hubble Space Telescope

General works

Large astronomical telescopes


Meridian instruments

Including transit circle, zenith telescope, visual and photographic

Extra-meridian instruments

Including altazimuth, almucantar, transit out of meridian, vertical circle
Astronomical instruments
Modern -- Continued
105 Portable instruments
   Including transit, solar compass
   Cf. VK583 Sextant
107 Clocks. Chronometers. Chronographs
   For use of chronograph in ballistics see UF830.C4
111 Eyepieces
113 Micrometers
115 Levels. Artificial horizons. Illumination, etc.
117 Optical interferometers
Astronomical photography
121 General works
121.5 Equipment and supplies
125 Television in astronomy
126 Video astronomy
Electronics in astronomy
127 General works
127.2 Equipment and supplies
127.4 Charge coupled devices
135 Astronomical photometry
Astronomical spectroscopy see QB465
135.5 Aeronautics in astronomy
   Including balloons, etc.
136 Space astronomy
   Including aeronautics in astronomy
139 Telegraphic codes for transmission of astronomical data
Practical and spherical astronomy
   Cf. QB66 Use of globes
   Cf. VK551+ Nautical astronomy
140 Periodicals, societies, congresses, serial publications
143 Dictionaries and encyclopedias
144 Early works through 1800
145 General works, treatises, and textbooks
147 Celestial sphere and coordinates
149 Statistical astronomy
Correction and reduction of observations
151 General works, treatises, and textbooks
153 Personal equation
   Involving apparatus for its determination
154 Errors of adjustment, etc.
   Reduction to center of earth
   Refraction
   Theory and determination of constant
156 Tables
159 Parallax
Correction for movement of earth and equinoxes
   Including determination of constants by observation
161 General works, treatises, and textbooks
163 Aberration
   Cf. QC671 Electromagnetic theory
165 Precession and nutation
167 Annual parallax
168 Star reduction (from mean to apparent place)
169 Position of pole
Practical and spherical astronomy -- Continued

171  Determination of the ecliptic
175  General works
185  Miscellaneous phenomena at occultations and transits

Geodetic astronomy
   Including determination of geographical positions

201  General works, treatises, and textbooks
     Observations
        Cf. QB296.A1+ Observations (Geodesy)
205.A1  Periodicals, societies, congresses, serial publications
205.A2  General works, treatises, and textbooks
205.A3-Z  By region or country, A-Z
                     e.g.
                       Mexico
205.M6  General works
205.M7A-.M7Z  Local, A-Z
                      United States
205.U4-.U5  General works
205.U6A-.U6Z  By region or state, A-Z
205.U7A-.U7Z  By city, A-Z

207  Azimuth. Determination of meridian
     Time
        For historical chronology, calendar, etc. see CE1+
        Cf. BD638 Cosmology
        Cf. BF468 Psychology
        Cf. GN476.3 Anthropology
        Cf. QC173.59.T5 Time dilatation

209  General works
209.5  Juvenile works
     Time service
210.A1  General works, treatises, and textbooks
210.A3-Z  By region or country, A-Z
211  Sidereal and solar, and their conversion
213  Methods of finding the time
214  Instruments for measuring the time
       Including hourglasses
          Cf. TS540+ Watches and clocks
215  Sundials and dialing
216  Sunrise and sunset
217  Equation of time
221  Time signals, etc.
223  Systems and standards
224  Prime meridians
     Longitude and latitude
224.5  General works, treatises, and textbooks
224.7.A-Z  By region or country, A-Z
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225  Methods of determination
228  Tables and ephemerides
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229  General works, treatises, and textbooks
229.5.A-Z  By region or country, A-Z
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281.5
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   Cf. QA827 Attractions of ellipsoids
   Cf. QB331 Isostasy
   Cf. QB410 Rotating masses of fluid
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   Hassler
298.R8
   Rylke
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   Cf. TA501+ Plane surveying
   Cf. VK588+ Hydrographic surveying
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303
Base measuring
   Including apparatus
   Cf. QC101 Standards of length
311
Triangulation
   Cf. TA583 Plane surveying
321
Theory and computation. Tables, etc.
   Cf. QA275 Least squares
325
Traverse surveying
   Cf. TA585 Plane surveying
Instruments
   Cf. TA562+ Surveying instruments, methods, etc.
328.A1
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328.G4
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328.P7
Prismatic astrolabe
328.T4
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Gravity determinations
Geodesy

Gravity determinations -- Continued

330
Periodicals, societies, congresses, serial publications

331
Theory and description of apparatus. Isostasy
Cf. QA862.P4 Dynamics of pendulum

Observations
Including length of seconds, pendulum, etc.

334
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337.5.A-Z
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339
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Including lunar, solar, earth movements

341
Constant of gravitation. Mean density of the earth

343
Satellite geodesy. Artificial satellites in geodesy
Cf. TL798.G4 Geodetic satellites

Theoretical astronomy and celestial mechanics
Cf. TL1050+ Astrodynamics

349
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350
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351
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353
Addresses, essays, lectures

Calculation of orbits. Orbit determination
For orbits of individual planets see QB371+
For planetary orbits in general see QB603.M6

355
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355.3
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355.5
Kepler's equation

357
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361
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362.A-Z
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362.F47
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362.M3
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362.T5
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362.T9
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374
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377
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  - Individual planets -- Continued

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#### Lunar theory

- General works, treatises, and textbooks

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#### Satellites

- Including individual planetary satellites

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#### Theory of tides

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<tr>
<td>421</td>
<td>Instruments see GC306</td>
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#### Cosmochemistry

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<table>
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<tr>
<td>450</td>
<td>General works</td>
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<td>450.5</td>
<td>Cosmic abundance</td>
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<tr>
<td>454</td>
<td>Collective</td>
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#### Astrogology

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<table>
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<tbody>
<tr>
<td>455</td>
<td>General works</td>
</tr>
<tr>
<td>455.2</td>
<td>Astromineralogy</td>
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#### Extraterrestrial seismology

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<tr>
<td>455.5</td>
<td>Extraterrestrial seismology</td>
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<tr>
<td>455.5</td>
<td>Cf. QB539.I5 Helioseismology</td>
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<td>455.5</td>
<td>Cf. QB812 Astroseismology</td>
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Astrogeology -- Continued

456
  Multiring basins

Astrophysics (General)

460
  Periodicals, societies, congresses, serial publications
460.15
  Collected works (nonserial)

460.7
  Biography

460.72.A-Z
  Collective
  Individual, A-Z

461
  General works, treatises, and textbooks
461.3
  Popular works
461.5
  Addresses, essays, lectures
462.2
  Data processing
462.3
  Mathematics
462.5
  Radio astrophysics
462.6
  Molecular astrophysics
462.65
  Relativistic astrophysics

465
  Plasma astrophysics

462.7
  General works
462.72
  Double layers

462.8
  Cosmic magnetic fields

Nuclear astrophysics

463
  Periodicals, societies, congresses, serial publications
463.15
  Collected works (nonserial)

464
  General works, treatises, and textbooks
464.15
  Particle acceleration
464.2
  Neutrino astrophysics
464.3
  Nucleosynthesis
464.4
  Radiative capture

465
  Astronomical spectroscopy
  Cf. QB551 Spectroscopy of sun and eclipses
  Cf. QB870+ Stellar spectroscopy

466.A-Z
  Other topics, A-Z

466.A25
  Accretion
466.C45
  Chaotic behavior in systems
466.C64
  Collisions
466.C65
  Compact objects
466.C66
  Controlled fusion
466.C67
  Cosmochronology
466.D58
  Disks
466.E65
  Equations of state
466.F58
  Fluid dynamics
466.G38
  Gas dynamics
466.J46
  Jets
466.M37
  Mass loss
466.P67
  Positronium

Non-optical methods of astronomy

468
  General works

Infrared astronomy

470.A1
  Periodicals, societies, congresses, serial publications
470.A5-Z
  General works, treatises, and textbooks

Gamma ray astronomy

471.A1
  Periodicals, societies, congresses, serial publications
471.A5-Z
  General works, treatises, and textbooks
471.7.A-Z
  Special topics, A-Z
471.7.B85
  Bursts

X-ray astronomy
Non-optical methods of astronomy
X-ray astronomy -- Continued

472.A1 Periodicals, societies, congresses, serial publications
472.A5-Z General works, treatises, and textbooks
472.5 Juvenile works
473 Addresses, essays, lectures
474 Ultraviolet astronomy

Radio astronomy
Cf. QB860 Quasars

475.A1 Periodicals, societies, congresses, serial publications
475.A15 Collected works (nonserial)
475.A2 Dictionaries and encyclopedias
475.A25 History
475.A25.A1 General works
475.A28A-.A28Z By region or country, A-Z
476.5 General works, treatises, and advanced textbooks
477 Popular works
478 Juvenile works
478.5 Addresses, essays, lectures
479.A2 Observatories
479.A2 General works
479.A5-Z By region or country, A-Z

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

479.2 Radio telescopes
479.3 Radio interferometers
479.4 Millimeter astronomy
479.5 Radio sources
479.55.A-Z Individual radio sources or types of radio sources, A-Z
479.55.C93 Cygnus A
479.55.H68 Hot spots
479.55.M18 M87 (Galaxy)
479.55.R34 Radio Galaxies
479.55.S88 Superluminal

480 Radar in astronomy

Descriptive astronomy
Periodicals, societies, congresses, serial publications see QB1
General works, treatises, and textbooks see QB42+
Universe. Space. Space sciences
Cf. QB980+ Cosmology
Cf. TL787+ Astronautics. Space travel

495 Periodicals, societies, congresses, serial publications
496 Collected works
497 Dictionaries and encyclopedias
497.2 Communication in space sciences
498 History
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
   Study and teaching. Research
      Including exploration of outer space

500.262
   General works

500.264
   Experiments

500.266.A-Z
   By region or country, A-Z
   Orbiting astronomical observatories

500.267
   General works

500.268
   Hubble Space Telescope

500.269
   Next Generation Space Telescope

500.28
   Northern sky

500.3
   Southern sky

Solar system

500.5
   Periodicals, societies, congresses, serial publications

501
   General works, treatises, and textbooks

501.2
   Popular works

501.3
   Juvenile works

501.5
   Study and teaching. Research

502
   Miscellany and curiosities

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
      General works, treatises, and textbooks
      1639 transit
      1761 and 1769 transits
      1874 transit
      1882 transit
      2004 transit

515
   Transit of Mercury

515
   Observations of Mars and asteroids
   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
    Solar activity
      Other special topics, A-Z -- Continued
        Faculae
        Flares
        Flocculi. Plages
          Plages see QB526.F64
        Prominences
        Solar energetic particles
      Atmosphere, chromosphere
        Corona. Solar wind. Heliosphere
  526.F3
  526.F6
  526.F64
  526.P7
  526.S65
    Solar energetic particles
  528
  529
    Atmosphere, chromosphere
      Corona. Solar wind. Heliosphere
    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
    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 1989, Rao Joe. Your guide to the great solar eclipse of 1991, c1989
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
545
551
Spectroscopy of sun and eclipses
579
Lunar eclipses
Moon
580
Periodicals, societies, congresses, serial publications
581
General works, treatises, and textbooks
581.9
Popular works
582
Juvenile works
582.3
Study and teaching. Research
582.5
Exploration
Cf. TL799.M6 Space flights to the moon
583
Distance, parallax
585
Rotation, libration, and shape
588
Temperature, radiation, brightness, phases
591
Surface, physical condition, meteorology
592
Lunar geology. Lunar petrology
Cf. TN291.35 Lunar mining
595
Photographs, maps, drawings
Planets. Planetology
Cf. QB54 Extraterrestrial life
Cf. QB401+ Satellites
Cf. QB500.5+ Solar system
Cf. QB820 Extrasolar planets
Cf. TL799.A+ Flights to special planets
600
Periodicals, societies, congresses, serial publications
600.2
Dictionaries and encyclopedias
Communication of planetological information
600.3
General works
600.32
Information services
600.33
Geographic information systems
600.34
Computer network resources
Including the Internet
600.35
Planetological literature
600.5
Nomenclature, terminology, names
601
General works, treatises, and textbooks
601.9
Popular works
602
Juvenile works
602.9
Special aspects of the subject as a whole
602.95
Data processing
603.A-Z
Special topics, A-Z
603.A85
Atmospheres
Including meteorology
603.C6
Composition
603.C7
Cratering
Descriptive astronomy
Solar system
Planets. Planetology
Special topics, A-Z -- Continued

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

637
   Photographs from space
   Seasons
   Cf. GR930 Folklore
637.2
   General works, treatises, and textbooks
637.4
   Juvenile literature
637.5
   Spring
637.6
   Summer
637.7
   Autumn
637.8
   Winter
638
   Miscellany and curiosa
638.8
   End of the world

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

639
   General works
   Mars
641
   General works
643.A-Z
   Special topics, A-Z
643.A86
   Atmosphere
643.C55
   Climate
643.D87
   Dust storms
643.G46
   Geology
643.G73
   Gravity
643.M48
   Meteorology
   Satellites see QB403
643.S42
   Seasons
643.V65
   Volcanism. Volcanoes
643.W38
   Water
643.W56
   Wind erosion

Asteroids
651
   General works
653.A-Z
   Individual asteroids, A-Z

Outer planets
659
   General works
   Jupiter
661
   General works
663.A-Z
   Special topics, A-Z
663.A86
   Atmosphere
   Satellites see QB404

Saturn
671
   General works
673.A-Z
   Special topics, A-Z
   Ring system see QB405
   Satellites see QB405

Uranus
681
   General works
683.A-Z
   Special topics, A-Z
   Satellites see QB406

Neptune
691
   General works
693.A-Z
   Special topics, A-Z
   Ring system see QB407
Descriptive astronomy
Solar system
Planets. Planetology
Superior planets
Outer planets
Neptune
Special topics, A-Z
Satellites see QB407
Trans-Neptunian objects
Cf. QB701+ Pluto

694 General works
695 Kuiper Belt
Dwarf planets
698 General works
Pluto
701 General works
703.A-Z Special topics, A-Z
Satellites see QB408
705 Ceres
Comets
Cf. QB357 Calculation of orbits
717 Periodicals, societies, congresses, serial publications
721 General works, treatises, and textbooks
721.4 Popular works
721.5 Juvenile works
721.6 Addresses, essays, lectures
722 Catalogs
723.A-Z Periodic comets. By name, A-Z
(723.A7) Arrest's comet
see QB723.D37
723.B5 Biela comet
723.B7 Brooks comet
723.B8 Brorsen comet (I)
723.C6 Comas Sola comet
723.D37 D'Arrest comet
723.D45 Delavan comet
723.D5 Denning comet
723.E3 Encke comet
723.F2 Faye comet
723.G43 Geddes comet
723.H17 Hale-Bopp comet
723.H2 Halley's comet
723.H7 Holmes comet
723.L6 Lexell comet
723.M67 Morehouse comet
723.S56 Shoemaker-Levy 9 comet
723.T3 Tempel 1 comet
723.T8 Tuttle comet
723.V35 Van Biesbroeck comet
724 Comets before 1700
725 1700-1799

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

Solar system

Comets -- Continued

1800-1899

Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB726 followed by author number and date of publication, e.g.

QB726.61.K8, Kreutz, Heinrich, Untersuchungen über die Bahn des grossen Kometen von 1861

1900-1999

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

2000-2099

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

Distribution of comets

Nature and constitution (before the spectroscope)

Nature and constitution (modern views)

Distribution of comets

Meteoroids

Meteors

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Juvenile works

Methods of observation and geometrical topics

Including radiants, altitude, etc.

Periodic showers

November

August

Orbits

Streams

Relation between meteors and comets

General works

Other theories of the origin of meteors

Remarkable meteors, fireballs

Meteorites

Including craters

Cf. QE399 Tektites

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Juvenile literature

Addresses, essays, lectures

By region or country, A-Z

Individual meteorites and craters, A-Z

Allende meteorite

Chingueetti meteorite

Fermo meteorite

Jibal Waqf as Sawwan Crater

Kurinelli meteorite

Meteor Crater (Ariz.)

Orgueil meteorite

Port Orford meteorite

Sikhote-Alin meteorite

Thuathe meteorite

Tunguska meteorite

Vredefort Dome (South Africa)

Meteorite types or classes

Iron meteorites. Siderites
Descriptive astronomy
   Solar system
   Meteorites
      Meteorite types or classes
         Iron meteorites. Siderites -- Continued
         General works, treatises, and textbooks
         Special, A-Z
         Ataxites
         Hexahedrites
         Octahedrites
   Stony meteorites. Aerolites
      General works, treatises, and textbooks
         Special, A-Z
         Achondrites
         Chondrites
   Stony-iron meteorites. Siderolites. Intermediates
   Zodiacal light. Counterglow. Gegenschein
      Spectroscopy of moon, planets, comets, etc.
   Moon
   Planets
   Comets
   Meteors

Interstellar matter
   General works
   Cosmic dust
   Cosmic grains
   Dark matter
   Missing mass
   Molecular clouds
   Interstellar hydrogen
   Interstellar magnetic fields
   Circumstellar matter

Stars
   Cf. QB6 Star catalogs
   Cf. QB870+ Stellar spectroscopy
   Periodicals, societies, congresses, serial publications
   General works, treatises, and textbooks
   Popular works
   Juvenile works
   Addresses, essays, lectures
   Constellation figures. Star names
      Cf. QB63 Stargazers' guides
   Zodiac
      Including individual constellations of the zodiac
   Particular stars (not A-Z)
      Cf. QB823 Particular double and multiple stars
      Cf. QB837 Particular variable stars
      Cf. QB883 Spectra of special stars
   Stellar evolution
   Starbursts
   Astrometry
      Cf. QB135 Astronomical photometry
   Structure
   Atmospheres
   Motion
      Including orbits, velocities, dynamics
Descriptive astronomy
Stars
Motion -- Continued
810 General works
811 Proper motion
812 Stellar oscillations. Astroseismology
813 Parallax and distance
814 Masses
815 Magnitudes. Photometric catalogs
816 Color
   Cf. QB829 Color of double stars
817 Radiation. Bolometry
817.5 Magnetic fields
818 Stellar diameters
818.5 Stellar collisions
   Including stellar mergers
819 Distribution
   Including stellar populations
820 Extrasolar planets
Double and multiple stars. Binary systems
   Cf. QB421 Theory
   Cf. QB903 Spectroscopy
821 General works, treatises, and textbooks
   Including observations, catalogs
823 Particular stars (not A-Z)
829 Colors of double stars
830 X-ray binaries
Variable stars. Algol systems
   Cf. QB895 Spectroscopy
833 Periodicals, societies, congresses, serial publications
835 General works, treatises, and textbooks
   Including observations, catalogs
835.2 Addresses, essays, lectures
836 Magnitude. Photometric catalogs
837 Particular stars or clusters (not A-Z)
837.5 Cataclysmic variable stars
838 Pulsating stars
841 Temporary or new stars
843.A-Z Other particular types of stars, A-Z
843.A12 A stars
843.A89 Asymptotic giant branch stars
843.B12 B stars
843.B25 Be stars
843.B55 Black holes
843.B57 Blue stragglers
843.B75 Brightest stars
843.B77 Brown dwarfs
843.C6 Cool stars
   Coronae Borealis stars R see QB843.R12
843.D44 Delta Scuti stars
843.D85 Dwarf novae
843.D9 Dwarf stars
843.E2 Early stars
843.F55 Flare stars
843.L85 Luminous blue variables
843.M16 M stars
Descriptive astronomy
Stars

Other particular types of stars, A-Z -- Continued
843.M3  Magnetic stars
843.N12  N stars
843.N4  Neutron stars
843.O12  O stars
843.P42  Peculiar stars
843.P8  Pulsars
843.R12  R Coronae Borealis stars
843.R17  R Scuti stars
843.R4  Red dwarfs
843.R42  Red giants
843.R72  RR Lyrae stars
843.S53  Shell stars
843.S85  Subgiant stars
843.S9  Supergiant stars
843.S94  Supermassive stars
843.S95  Supernovae
843.S96  Symbiotic stars
843.T12  T Tauri stars
843.W5  White dwarfs
843.W6  Wolf-Rayet stars

Clusters and nebulae
Cf. QB891 Spectroscopy
851  General works, treatises, and textbooks
    Including observations, catalogs
Clusters
853  General works
853.5  Globular clusters
Nebulae
855  General works
855.2  Juvenile works
855.5  Planetary nebulae
    Including proto-planetary nebulae
855.55  Gaseous nebulae
    Including Herbig-Haro objects
855.9.C7  Crab Nebula
855.9.H67  Horsehead Nebula
855.9.O75  Orion Nebula
Galaxies
856  Periodicals, societies, congresses, serial publications
857  General works
857.3  Juvenile works
857.5.A-Z  Special topics, A-Z
857.5.B84  Bulges
    Collisions see QB857.5.M47
857.5.D37  Data processing
857.5.E96  Evolution
857.5.E97  Extragalactic distances
857.5.G7  Gravitational lenses
    Including microlensing
857.5.H34  Halos
857.5.M34  Magnetic fields
857.5.M47  Mergers. Collisions
Descriptive astronomy

Stars

Galaxies

Special topics, A-Z -- Continued

857.5.M67
Motion in the line of sight
Radio galaxies see QB479.55.R34

857.5.S87
Surface brightness

Milky Way galaxy

857.7
General works

857.72
Galactic center

858
Dwarf galaxies
Active galaxies

858.3
General works

858.35
BL Lacertae objects

858.4
Elliptical galaxies

858.42
Spiral galaxies

858.5.A-Z
Other galaxies. By name, A-Z

858.5.M33
Magellanic Clouds

Clusters of galaxies

858.7
General works

858.8.A-Z
Individual. By name, A-Z

858.8.L63
Local Group

Cf. QB857.7+ Milky Way

858.8.V57
Virgo Cluster

860
Quasars

Stellar spectroscopy

870
Periodicals, societies, congresses, serial collections

871
General works, treatises, and textbooks

873
Instruments and apparatus

875
Chemical and physical constitution

881
Classification of stars

883
Study of special types of spectra

891
Nebulae and clusters

895
Variables and new stars

901
Motion in the line of sight. Radial velocities

903
Spectroscopic observations on double stars

Cosmogony. Cosmology

Including nebular hypothesis, meteoritic hypothesis, glacial cosmogony

Cf. BD493+ Speculative philosophy

Cf. QB503 Origin of solar system

980
Periodicals, societies, congresses, serial publications

980.5
Dictionaries and encyclopedias

981
General works, treatises, and textbooks

982
Popular works

983
Juvenile works

985
Addresses, essays, lectures

991.A-Z
Special topics, A-Z

991.B54
Big bang theory

991.C63
Computer simulation

991.C64
Cosmic background radiation

991.C65
Cosmic rotation

991.C658
Cosmological constants
### Cosmogony. Cosmology

**Special topics, A-Z -- Continued**

<table>
<thead>
<tr>
<th>Code</th>
<th>Topic</th>
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<td>991.C66</td>
<td>Cosmological distances</td>
</tr>
<tr>
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   Cf. R895+ Medical physics
   Cf. S588.4+ Agricultural physics
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3  Collected works (nonserial)
5  Dictionaries and encyclopedias
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      5.3  General works
      5.35  Information services
      5.4  Computer network resources
         Including the Internet
      5.45  Physics literature
      5.5  Abstracting and indexing
      5.52  Language. Authorship
   Philosophy. Methodology
      For relativity physics see QC173.5+
      For unified field theories see QC173.68+
      5.56  Periodicals, societies, congresses, serial publications
      5.58  Collected works (nonserial)
6  General works, treatises, and textbooks
   6.2  Addresses, essays, lectures
6.4.A-Z  Special topics, A-Z
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   6.4.A85  Asian philosophy
   6.4.C3  Causality
   6.4.C56  Coherent state
   6.4.C57  Consciousness
   6.4.C58  Constraints
   6.4.C6  Continuity. Continuum
   6.4.D46  Determinism
      Cf. QC174.17.H4 Heisenberg principle
   6.4.D5  Dialectical materialism
   6.4.D8  Dualism
   6.4.F58  Fluctuations
   6.4.I34  Identity (Philosophical concept)
   6.4.P37  Paradox
   6.4.R42  Reality
   6.4.R43  Reductionism
6.8  Nomenclature, terminology, notation, abbreviations
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   6.9  Periodicals, societies, congresses, serial publications
   7  General works
   7.5  Addresses, essays, lectures
   9.A-Z  By region or country, A-Z
14  Women in physics. Women physicists
    For biography see QC15+
   Biography
   15  Collective
      e.g.
      Curie, Marie and Pierre see QD22.C8
   16.E5  Einstein
   16.N7  Newton
   16.2  Directories
      Early works
Early works -- Continued

17  1501-1700
19  1701-1800

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  For mathematical theory without practical applications see QA401+
  Cf. QC173.96+ Quantum theory
  Cf. TA329+ Engineering mathematics

19.2  Periodicals, societies, congresses, serial publications
19.3  Collected works (nonserial)

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19.7.A-Z  By region or country, A-Z
20  General works, treatises, and textbooks
20.5  Addresses, essays, lectures
20.6  Special aspects of the subject as a whole
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  20.7.A34  Adiabatic invariants
  20.7.A37  Algebraic geometry
  20.7.A4  Algebraic logic
  20.7.A5  Analysis
    Cf. QA401+ Analytical methods for physical problems
  20.7.A85  Asymptotic theory
  20.7.B38  Bayesian statistical decision theory
  20.7.B47  Bethe-ansatz technique
  20.7.B54  Bifurcation theory
  20.7.B58  Bose algebras
  20.7.B6  Boundary value problems
  20.7.C14  C*-algebras
  20.7.C28  Calculus of tensors
  20.7.C3  Calculus of variations
  20.7.C36  Catastrophes
  20.7.C55  Clifford algebras
  20.7.C58  Combinatorial analysis
  20.7.C6  Correlation
  20.7.C63  Coupled problems
  20.7.D4  Decomposition method
  20.7.D43  Density functionals
  20.7.D45  Determinants
  20.7.D47  Difference equations
  20.7.D5  Differential equations
  20.7.D516  Differential games
  20.7.D52  Differential geometry
    Including noncommutative differential geometry
  20.7.D55  Dimensional analysis
  20.7.E4  Electronic data processing
  20.7.E48  Embedding theorems
  20.7.E88  Evolution equations
    Cf. QA377.3 Differential equations
  20.7.F56  Finite element method
  20.7.F67  Fourier transformations
  20.7.F73  Fractals
  20.7.F84  Functional analysis
  20.7.F85  Functional integration
  20.7.F87  Functions, Special
  20.7.G44  Geometry
  20.7.G55  Global analysis
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20.7.G7  Graph theory
20.7.G76  Group theory
   Cf. QC174.17.G7 Group theoretical methods for quantum mechanical problems
20.7.H35  Hamiltonian systems
20.7.H63  Homogeneous spaces
20.7.H65  Homology and cohomology theories
20.7.I33  Idempotents
20.7.I58  Integral equations
20.7.K47  Kernel functions
20.7.K56  Knot polynomials
20.7.L54  Lie algebras. Lie-admissible algebras
20.7.M24  Manifolds
20.7.M27  Mathematical optimization
20.7.M3  Matrix theory
   Cf. QC174.3+ Matrix mechanics
   Cf. QC793.3.M36 Elementary particle physics
20.7.M43  Measure theory
   Cf. QC174.17.M4 Quantum theory
20.7.M53  Microlocal analysis
20.7.M65  Monte Carlo method
20.7.N58  Nonassociative algebras
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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
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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
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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
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20.8  General works
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  20.82  Problems, exercises, examinations
  20.85  Handbooks, tables, formulas, etc.
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  21  1801-1969
  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.
  28  Addresses, essays, lectures see QC71
  29  Special aspects of the subject as a whole
  30  Physics as a profession. Vocational guidance
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  For programmed texts see QC21+
  31  General works
  32  Outlines, syllabi
  33  Problems, exercises, examinations
  34  Experiments
  Cf. QC26 Home experiments
Laboratory manuals
  35  General works
  36  Laboratory blanks
  37  Advanced
  38  Physical measurements (General)
  Including theory and methods
  Cf. QC81+ Weights and measures
  Cf. T50 Technical measurement
  39  Juvenile works
  40  Laboratory technique
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  United States
  44  General works
  45.A-Z  By region or state, A-Z
  Subarrange each state by Table Q7
  47.A-Z  Other regions or countries, A-Z
  Subarrange each country by Table Q7
  48  Developing countries
Laboratories
  Cf. QC100.A2+ Standardizing bureaus
  Cf. QC541.A1+ Electric laboratories
  51.A1  General works
  51.A3-Z  By region or country, A-Z
  Subarrange each country by Table Q6
  52  Data processing
Instruments and apparatus (General)
   For instruments of special fields, see the field
   Cf. QC100.5+ Weights and measures
   Cf. QC101+ Instruments for measurement of length, area, weight, etc.
   Cf. QC370.5+ Optical instruments
   Cf. QC875.5+ Meteorological instruments

53
   General works

55
   Juvenile works

Museums. Exhibitions

60.A1
   General works

60.A2-Z
   By region or country, A-Z
   Subarrange each country by Table Q5

61
   Handbooks, tables, formulas, etc.

71
   Addresses, essays, lectures

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

72
   History

73
   General works, treatises, and textbooks

73.4
   Juvenile works

73.6
   Study and teaching. Research

73.8.A-Z
   Special topics, A-Z

73.8.C6
   Conservation of energy

73.8.C65
   Correlation of forces

73.8.E53
   Energy transfer

73.8.M4
   Mechanical advantage

73.8.W65
   Work

75
   Miscellany and curiosa

Weights and measures. Units of measurement
   Class here works on the means of expressing quantities of length, area, volume, capacity, and
   mass (or weight) in terms of standard units. For works on units used in the measurement of
   other quantities, including velocity, pressure, energy, temperature, see the particular field of
   application
   Cf. BS680.W4 Weights and measures in the Bible
   Cf. HF5711+ Tables of weights and measures (Business mathematics)
   Cf. QA465 Measurement (Mathematics)
   Cf. QB214 Time measuring instruments
   Cf. QC535+ Electric measurements

81
   Periodicals, societies, congresses, serial publications
   For governmental standardizing bureaus, including serial publications issued by them see
   QC100.A3+

Museums. Exhibitions

81.5.A1
   General works

81.5.A2-Z
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82
   Dictionaries and encyclopedias

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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
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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

Standards (General). Governmental standardizing bureaus
100.A2 General works, treatises, and textbooks
100.A3-Z By region or country, A-Z

Measuring instruments (General)
100.5 General works
100.8 Catalogs

Measurement of special quantities
   Including instruments used in measurement
   Length
      Standards
102 Measurement and instruments
102.5 Thickness
      Including micrometers
103 Angles
      Including goniometers
      Cf. QA482 Plane geometry
      Cf. TA603 Surveying
104 Volume
104.5 Area measurement

Mass and weight
105 Standards
   Measurement
      Cf. QC172+ Atomic mass
      Cf. QC454.M3 Mass spectrometry
106 General works
107 Weighing instruments, balances, scales, etc.
      Cf. TS410 Manufactures
   Density and specific gravity
111 General works
114 Tables, etc.

Descriptive and experimental mechanics
   For theoretical and analytical mechanics see QA801+
   Cf. QC71.82+ Force and energy (General)
   Cf. QC176+ Solid state physics
   Cf. TA349+ Applied mechanics
Descriptive and experimental mechanics -- Continued

120 Periodicals, societies, congresses, serial publications
121 Collected works (nonserial)
121.6 Dictionaries and encyclopedias
121.8 Nomenclature, terminology, notation, abbreviations
   History
      For general history of mechanics see QA802
122 General works
122.2.A-Z By region or country, A-Z
123 Early works through 1800
   General works, treatises, and advanced textbooks
125 1801-1969
125.2 1970-
127 Elementary textbooks
127.3 Popular works
127.4 Juvenile works
127.6 Addresses, essays, lectures
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   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
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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
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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
148.2 Study and teaching. Research
148.24 General works
148.4 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.

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162 Adsorption and absorption

Including occlusion

163 Compressibility
163.5 Diffusion
164 Expansion
164.5 High temperatures

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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

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168.4 General works
168.6 Problems, exercises, etc.
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168.85.R45
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168.85.S45
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Cf. QC770+ Nuclear physics
Cf. QD450+ Physical chemistry
Cf. TA401+ Materials of engineering and construction
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    Cf. QC671 Aberration
    Cf. QC793+ Elementary particle physics
172
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  Cf. QC182+ Special properties of matter and antimatter
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173.4.L55
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    Cf. QD923 Crystallography
173.4.L56
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173.4.M5
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173.4.M85
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173.4.P64
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173.4.P65
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For general works on chemical and physical properties see QD380+

173.4.P67
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173.4.Q36
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Cf. QD926 Crystallography

173.4.Q37
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173.4.R44
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173.4.S94
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173.4.T48
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173.458.S64
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173.458.S75
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173.458.S87
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Cf. QA808.5 Relativistic mechanics
Cf. QC175.3+ Kinetic theory of liquids

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Cf. QC174.45+ Quantum field theory
Cf. QC178 Theories of gravitation
Cf. QC793.3.F5 Elementary particle physics

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173.75.A-Z
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173.75.T85
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Cf. QB991.Q36 Cosmology
Cf. QC446.15+ Quantum optics

173.96
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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
      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
  174.24.G4 Geometrical
  174.24.N6 Nonlinear
  174.24.N64 Nonrelativistic
  174.24.R4 Relativistic
      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.O63 Thermodynamics
174.85.P45 Percolation
174.85.P48 Phase space
Phase transformations see QC175.16.P5
174.85.P76 Probabilities
174.85.Q83 Quantum entropy
   Cf. QC318.E57 Entropy (Thermodynamics)
174.85.R36 Random fields
174.85.R364 Random matrices
174.85.R37 Random walks
174.85.S34 Scaling
174.85.S46 Set theory
174.85.W85 Wulff construction
174.86.A-Z Special types of statistical mechanics, A-Z
174.86.C6 Classical
174.86.N65 Nonequilibrium
Atomic physics. Constitution and properties of matter

Statistical physics -- Continued

174.9
Kinetic theory of matter
Kinetic theory of gases

Cf. QC702.5 Ionized gases

175.A1
Periodicals, societies, congresses, serial publications

175.A6-Z
General works, treatises, and textbooks

175.13
Special aspects of the subject as a whole

175.15
Study and teaching. Research

175.16.A-Z
Special topics, A-Z

175.16.B6
Boltzmann's distribution law

175.16.B65
Bose-Einstein gas

175.16.C6
Condensed gases

175.16.E6
Electron gas

Joule-Thomson effect see QC318.J6

175.16.M6
Molecules

175.16.P5
Phase transformations

175.16.R3
Rarefied gases

Transport theory

Cf. QC176.8.E9 Excitons
Cf. QC793.3.T7 Transport theory of elementary particles
Cf. QC809.E6 Energy budget (Geophysics)

175.2.A1
Periodicals, societies, congresses, serial publications

175.2.A6-Z
General works, treatises, and textbooks

175.23
Addresses, essays, lectures

175.25.A-Z
Special topics, A-Z

175.25.C6
Collision integrals

175.25.I6
Invariant imbedding

175.25.L5
Linear transport theory

175.25.R3
Radiative transfer

175.25.S4
Second sound

175.25.S8
Stochastic processes

Kinetic theory of liquids

175.3
General works, treatises, and textbooks

175.32
Addresses, essays, lectures

175.35
Special aspects of the subject as a whole

175.36.A-Z
Special topics, A-Z

175.36.R4
Relativity

Superfluid physics

Cf. QC611.9+ Superconductivity

175.4.A1
Periodicals, societies, congresses, serial publications

175.4.A6-Z
General works, treatises, and textbooks

175.45
Addresses, essays, lectures

175.47.A-Z
Special topics, A-Z

175.47.B65
Bose-Einstein condensation

Solids. Solid state physics

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

For works that deal exclusively with crystals see QD901+

Cf. QD478 Solid state chemistry
Cf. TN689+ Physical metallurgy

176.A1
Periodicals, societies, congresses, serial publications

176.A3
Dictionaries and encyclopedias

176.A6-Z
General works, treatises, and textbooks

176.2
Addresses, essays, lectures

176.3
Juvenile works

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

176.5
General works
176.515
Problems, exercises, examinations
176.52.A-Z
By region or country, A-Z
176.8.A-Z
Special topics, A-Z
176.8.A3
Acoustic properties
  Cf. TA418.84 Engineering materials
176.8.A35
Adhesion
176.8.A44
Amorphous substances
176.8.A54
Anderson model
176.8.A6
Annealing
176.8.C45
Channeling
176.8.C6
Compressibility
176.8.D44
Defects
176.8.D5
Diffusion
  Elastic properties see QC191
176.8.E35
Electric properties
176.8.E4
Electronic states
176.8.E9
Excitons
176.8.E94
Expansion
176.8.F4
Fermi surface
176.8.F74
Free electron theory of metals
  Hole burning, Optical see QC176.8.O58
176.8.H66
Hopping conduction
176.8.L3
Lattice dynamics
  Cf. QD921+ Crystal structure
176.8.M3
Magnetic properties
176.8.M34
Magnetron sputtering
176.8.M46
Mesoscopic phenomena
176.8.M48
Metal-insulator transitions
176.8.M5
Micromechanics
176.8.N35
Nanostructures
  Noncrystalline solids see QC176.8.A44
176.8.N65
Nonmetallic solids
176.8.O58
Optical hole burning
176.8.O6
Optical properties
176.8.P45
Phase transformations
176.8.P5
Phonons
176.8.P54
Plasma effects
176.8.P55
Plasmons
176.8.P6
Polaritons
176.8.P62
Polarons
176.8.Q35
Quantum wells
176.8.R3
Radiation effects
176.8.R35
Rare gas solids
176.8.S68
Spin glasses
176.8.S72
Sputtering
  Sputtering, Magnetron see QC176.8.M34
176.8.S8
Surface properties
  Cf. QD506+ Surface chemistry
  Cf. TA418.7+ Surface technology
176.8.T4
Thermal properties
  Cf. QC295 Specific heat
  Cf. TA418.52+ Engineering materials
Atomic physics. Constitution and properties of matter
Solids. Solid state physics
Special topics, A-Z -- Continued

176.8.T8  Tunneling
176.8.V34  Valence fluctuations
176.8.W3  Wave propagation
Thin films
176.82  Periodicals, societies, congresses, serial publications
176.825  Collected works (nonserial)
176.83  General works, treatises, and textbooks
176.835  Addresses, essays, lectures
176.84.A-Z  Special topics, A-Z
176.84.D54  Diffusion
176.84.E5  Electric properties
176.84.M3  Magnetic properties
176.84.O7  Optical properties
176.84.R3  Radiation effects
176.84.S49  Size effects
176.84.S93  Surface properties
176.9.A-Z  Special thin film substances and types, A-Z
176.9.M84  Multilayered
176.9.N64  Nonmetallic
176.9.O73  Organic
176.9.P64  Polycrystalline
176.9.R37  Rare earths
176.95.A-Z  Special substances, A-Z
176.95.I25  Ice
  Cf. QC926.3+ Snow
177  Theories of ether
178  Theories of gravitation
  Including antigravity, quantum gravity
179  Gravitational waves. Gravitational radiation
Special properties of matter and antimatter
182  Absorption and adsorption
  Cf. QC162 Adsorption and absorption of gases
183  Capillarity
  Including surface tension, cohesion
  Cf. QA274.75 Brownian motion processes
  Cf. QC156 Drops. Splashes
  Cf. QD506+ Surface chemistry
184  Brownian motion
185  Diffusion. Transpiration
  Cf. QA274.75 Diffusion processes
  Cf. QC145.4.D5 Diffusion in liquids
  Cf. QC163.5 Diffusion in gases
  Cf. QC176.8.D5 Diffusion in solids
Osmosis (Cytology) see QH615
Osmosis (Physical chemistry) see QD543
Osmosis (Plant physiology) see QK871
Viscosity
  Cf. QC145.4.V5 Viscosity of liquids
  Cf. QC167 Viscosity of gases
189.A1  Periodicals, societies, congresses, serial publications
189.A2  Collected works (nonserial)
189.A6-Z  General works, treatises, and textbooks
189.2  Handbooks, tables, formulas, etc.
Atomic physics. Constitution and properties of matter
   Special properties of matter and antimatter -- Continued
   Rheology
     Including non-Newtonian liquids
     Cf. QA931+ Plasticity (Analytic mechanics)
     Cf. TA418.14+ Plastic properties of materials
     Cf. TP156.R45 Chemical engineering
  189.5.A1
     Periodicals, societies, congresses, serial publications
  189.5.A2
     Collected works (nonserial)
  189.5.A6-Z
     General works, treatises, and textbooks
  189.55.A-Z
     Special topics, A-Z
  189.55.S58
     Slit die rheometers
  189.8
     Thixotropy
  191
     Elastic properties of solids
     Cf. QA931+ Analytic mechanics
     Cf. QD933 Crystallography
     Cf. TA418+ Mechanical properties of materials
  191.5.A-Z
     Particular solids and special topics, A-Z
  191.5.M48
     Metals
  191.5.S67
     Springback
  192
     Thermal properties
  193
     Deformation
  197
     Friction, etc.
     Cf. TA418.72 Friction properties of materials
   Sound, light, and heat as a whole
  220
     General works
  220.5
     Acoustooptics
   Acoustics. Sound
     Cf. ML3805 Music acoustics
     Cf. NA2800 Architectural acoustics
     Cf. QC176.8.A3 Acoustical properties of solids
     Cf. QP460+ Bioacoustics
     Cf. TA365+ Acoustics in engineering
     Cf. TA418.84 Acoustical properties of materials
     Cf. TH1725 Soundproof construction
     Cf. TK5981+ Electroacoustics
  221
     Periodicals, societies, congresses, serial publications
  221.5
     Dictionaries and encyclopedias
  221.7
     History
  222
     Early works through 1800
  223
     Mathematical theory
     General works, treatises, and advanced textbooks
  225
     1801-1969
  225.15
     1970-
  225.2
     Elementary textbooks
  225.3
     Popular works
  225.5
     Juvenile works
  225.6
     Addresses, essays, lectures
  225.7
     Special aspects of the subject as a whole
     Study and teaching. Research
  226
     General works
  226.6
     Experiments
  227
     Laboratory manuals
     Laboratories
  228.A1
     General works
Acoustics. Sound
Laboratories -- Continued

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

228.2
Technique

228.3
Instruments and apparatus

228.8
Handbooks, tables, formulas, etc.

229
Miscellany and curiosa

Special topics

231
Kinematics of vibrations and wave motion

233
Propagation of sound
Including velocity, reflection, transmission

Vibrations

235
Gases in tubes, etc. Resonance

241
Strings, rods, membranes, plates, tuning forks

Underwater acoustics
Cf. TK5103.52 Acoustical telecommunication systems

242
Periodicals, societies, congresses, serial publications
242.2
General works, treatises, and textbooks
242.25
Addresses, essays, lectures
242.4
Instruments and apparatus
Cf. TK50987 Hydrophone design and construction

242.5.A-Z
Special topics, A-Z

242.5.O23
Ocean tomography

Sound waves
Cf. TD894 Noise measurement

242.8
Periodicals, societies, congresses, serial publications

243
General works, treatises, and textbooks
243.2
Juvenile works

243.3.A-Z
Special topics, A-Z
243.3.A24
Acoustic localization
243.3.A25
Acoustic streaming
243.3.A4
Amplitude
243.3.D3
Damping
243.3.D53
Diffraction
243.3.E5
Energy
243.3.P7
Pressure of sound
243.3.R3
Radiation pressure
243.3.R4
Reverberation. Reverberation time
Cf. NA2800 Architectural acoustics

243.3.S3
Scattering
Transmission see QC233

243.5
Infrasonics

244
Ultrasonics
Cf. QC480.2 Sonoluminescence
Cf. TA417.4 Ultrasonic testing

244.2
Nonlinear acoustics
244.5
Acoustic holography

246
Analysis of sounds. By phonograph, etc.
For acoustic phonetics see P221.5

247
Social and cultural aspects

Heat
For thermal properties of solids see QC176.8.T4
Cf. QC220+ Sound, light, and heat as a whole

251
Periodicals, societies, congresses, serial publications
251.4
Collected works (nonserial)
Heat -- Continued

251.6    Dictionaries and encyclopedias
252    History and philosophy
252.2    Nomenclature, terminology, notation, abbreviations
253    Early works through 1800
   General works, treatises, and advanced textbooks
254    1801-1969
254.2    1970-
255    Elementary textbooks
256    Juvenile works
257    Addresses, essays, lectures
   Study and teaching. Research
   For programmed texts see QC254+
261    General works
261.5    Problems, exercises, examinations
263    Experiments
263.5    Laboratory manuals
265    Technique
266    Handbooks, tables, formulas, etc.
267    Miscellaneous and curiosa
   Thermometers. Thermometry
   Including temperature measurements and temperature measuring instruments
   Cf. GC177 Oceanographic instruments
270    Periodicals, societies, congresses, serial publications
270.5    Collected works (nonserial)
270.7    Dictionaries and encyclopedias
271    General works, treatises, and textbooks
271.4    Juvenile works
271.5    Addresses, essays, lectures
271.6    Special aspects of the subject as a whole
271.8.A-Z    Special aspects of instrumentation, A-Z
271.8.A95    Automatic control
271.8.C3    Calibration
271.8.T4    Testing
   Special types of thermometers
272    Mercury and other liquids
273    Air and gases
274    Electrical. Resistance thermometers. Thermocouples
275.A-Z    Other, A-Z
   High temperatures
276    General works
277    Pyrometers and pyrometry
   Low temperatures
   Cf. QD536 Thermochemistry
   Cf. TP480+ Low temperature engineering
277.9    Periodicals, societies, congresses, serial publications
278    General works, treatises, and textbooks
278.2    Juvenile works
278.4    Addresses, essays, lectures
278.6    Instruments and apparatus
   High pressure
280    Periodicals, societies, congresses, serial collections
280.2    General works, treatises, and textbooks
280.4    Study and teaching. Research
280.6    Technique
280.8    Instruments and apparatus
Heat -- Continued

Relations between pressure, volume, and temperature

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

Calorimeters and calorimetry
Cf. QD510+ Thermochemistry
Cf. TP315+ Fuel (Chemical technology)

290
Periodicals, societies, congresses, serial publications
291
General works, treatises, and textbooks
292
Addresses, essays, lectures
293.A-Z
Special types of calorimeters, A-Z
293.A3
Adiabatic
293.F5
Fluid
293.F8
Fuel
293.G3
Gas
293.M5
Microcalorimeter
293.R3
Radiation
293.V3
Vacuum
295
Specific heat of solids and liquids
297
Specific heat of gases and vapors

Change of state

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

Thermodynamics
Cf. QC718.5.T5 Plasma physics
Cf. QD510+ Chemical thermodynamics
Cf. TJ255+ Heat engines. Engineering thermodynamics
Cf. TN689+ Metallurgical thermodynamics

310.15
Periodicals, societies, congresses, serial publications
310.2
Collected works (nonserial)
310.3
Dictionaries and encyclopedias
310.5
Nomenclature, terminology, notation, abbreviations
311
General works, treatises, and advanced textbooks
311.15
Elementary textbooks
311.19
Addresses, essays, lectures
311.2
Special aspects of the subject as a whole
Study and teaching. Research
311.25
General works
311.28
Problems, exercises, examinations
311.29
Data processing
Heat

Thermodynamics -- Continued

311.3  Handbooks, tables, formulas, etc.
       Special types of thermodynamics
311.5  Statistical
311.7  Relativistic
312  Mechanical equivalent of heat
318.A-Z  Other special topics, A-Z
318.E55  Enthalpy
318.E57  Entropy
       Cf. QC174.85.Q83 Quantum entropy
       Equilibrium thermodynamics see QC318.T47
       Force and energy see QC71.82+
       Gases see QC167.5+
318.I7  Irreversible processes
       Including nonequilibrium thermodynamics
       Cf. QC174.17.I76 Quantum theory
318.J6  Joule-Thomson effect
       Low temperatures see QC277.9+
318.M3  Mass transfer
318.M35  Maxwell's demon
       Nonequilibrium thermodynamics see QC318.I7
318.O63  Open systems
318.P6  Planck radiation law
318.T47  Thermodynamic equilibrium
318.T5  Thermodynamic potentials
319  Miscellany and curiosa

Heat transfer

319.8  Periodicals, societies, congresses, serial publications
319.9  Collected works (nonserial)
320  General works, treatises, and textbooks
320.14  Juvenile works
320.16  Addresses, essays, lectures
320.2  Special aspects of the subject as a whole
320.22.A-Z  Special topics, A-Z
320.22.E4  Electromechanical analogies
320.22.E43  Electronic data processing
320.22.F5  Film boiling
320.22.F56  Finite element method

Study and teaching, Research

320.3  General works
320.34  Problems, exercises, examinations
320.36  Experiments
320.38  Instruments and apparatus
320.4  Handbooks, tables, formulas, etc.

Conduction

320.8  Periodicals, societies, congresses, serial publications
321  General works, treatises, and textbooks
321.3  Juvenile works
321.5  Addresses, essays, lectures
321.6  Special aspects of the subject as a whole
321.7.A-Z  Special topics, A-Z
321.7.E4  Electromechanical analogies
321.7.T55  Thermal diffusivity
323  Experiments
Heat

Heat transfer -- Continued

Convection

Cf. TH7435+ Heating of buildings

326
Periodicals, societies, congresses, serial publications

327
General works, treatises, and textbooks

327.4
Handbooks, manuals, etc.

328
Addresses, essays, lectures

330
Free convection

330.2
Bénard cells

331
Radiation and absorption. Laws of cooling

332
General works

332 General works, treatises, and textbooks

338
Instruments

338.5.A-Z
Special, A-Z

338.5.B6
Bolometers

338.5.P95
Pyroelectric detectors

338.5.R3
Radiometers

338.5.R33
Radiomicrometers

Thermopiles see QC274

Optics. Light

Cf. QC220+ Sound, light, and heat as a whole
Cf. QC494+ Color
Cf. QP474+ Physiological optics
Cf. TA1501+ Applied optics. Lasers

350
Periodicals, societies, congresses, serial publications

351
Collected works (nonserial)

351.2
Dictionaries and encyclopedias

351.5
Nomenclature, terminology, notation, abbreviations

352
History

352.4
Biography

352.5.A-Z
Collective

353
Individual, A-Z

353
Early works through 1800

355
General works, treatises, and advanced textbooks

355.2
1801-1969

355.3
1970-2000

355.3
2001-

358
Elementary textbooks

358.5
Popular works

360
Juvenile works

361
Addresses, essays, lectures

362
Pictorial works and atlases

363
Study and teaching. Research

363
General works

363.2
Outlines, syllabi

363.4
Problems, exercises, examinations

365
Experiments

366
Laboratory manuals

367
Optical measurements

367
General works

367.3.A-Z
Special topics, A-Z

367.3.D46
Densitometry

367.3.I58
Interferometry

367.3.L37
Laser interferometry

367.3.L38
Laser velocimetry
Optics. Light
Optical measurements
Special topics, A-Z -- Continued
367.3.P37  Particle dynamics analysis
367.3.P65  Polarimetry
367.3.S64  Speckle metrology
367.3.V45  Velocimetry
368  Optical constants
369  Handbooks, tables, formulas, etc.
369.2  Miscellany and curiosa
370  Information theory in optics
Optical instruments and apparatus (General)
   Cf. QC385+ Lens and mirror systems
   Cf. QC787.O6 Nuclear fission, atomic energy, and radioactivity instruments
   Cf. TS510+ Optical instrument manufacture
370.5  Periodicals, societies, congresses, serial publications
370.6  Collected works (nonserial)
370.7  Dictionaries and encyclopedias
371  General works, treatises, and textbooks
371.4  Juvenile works
371.5  Addresses, essays, lectures
372  Special aspects of the subject as a whole
372.2.A-Z  Special topics, A-Z
372.2.D4  Design
            Study and teaching. Research
   General works
372.22  Laboratory manuals
372.6  Handbooks, tables, formulas, etc.
373.A-Z  Special instruments, A-Z
373.B3  Beam splitters
373.B55  Binoculars. Field glasses
373.C64  Collimators
            Diffraction gratings see QC417
            Field glasses see QC373.B55
            Hand lenses see QC373.M33
373.H5  Heliostat
            Interference microscopes see QH212.I5
373.K3  Kaleidoscopes
373.L5  Light filters
373.M33  Magnifying glasses. Hand lenss
            Mass spectrometers see QC454.M3
            Microscopes see QH211+
373.O59  Optical detectors
373.P7  Polariscope
            Polarizing apparatus see QH217
373.Q2  Q-switching
            Reflectometer see QC425.4
            Refractometers see QC426.4
373.R4  Reticles
            Scanning systems see TK7882.S3
373.S3  Schlieren apparatus
            Including schlieren methods
373.S7  Spectrograph. Spectrometer
373.S8  Stereoscope
373.S85  Stroboscopes
            Telemeter see TK399
Optics. Light
Optical instruments and apparatus (General)
Special instruments, A-Z -- Continued
   Telescopes see QB88+
   Materials for optical instruments, etc.
374
   General works
374.5
   Diamond
375
   Glass
376
   Quartz
378
   Thin films
378.5
   Transparent ceramics
379
   Miscellany and curiosa
Geometrical optics
   Cf. QC974.5+ Meteorological optics
   Cf. TA1659.5+ Micro-optics
   Cf. TR220 Photographic optics
380
   Early works through 1800
381
   General works, treatises, and advanced textbooks
381.2
   Elementary textbooks
381.4
   Popular works
381.6
   Juvenile works
Study and teaching. Research
   General works
382
   Problems, exercises, examinations
382.6
   Laboratory manuals
383
   Mathematical theory
   Lens and mirror systems
      Cf. QB88+ Astronomical instruments
      Cf. RE961 Ophthalmology
      Cf. TC379 Lighthouse lenses
      Cf. TP867 Mirrors and mirror frames
      Cf. TR270+ Camera lenses
      Cf. TS517.3+ Manufacture of optical surfaces
385
   General works
385.2.A-Z
   Special topics, A-Z
385.2.D47
   Design
      Cf. QC372.2.D4 Optical instrument design
385.5
   Experiments
387
   Refractive indices
      Cf. QC426.4 Refractometers
389
   Transmission of radiation
391
   Photometry. Microphotometry
      Including densitometers
      Cf. QB135 Astronomical photometry
      Cf. TK4367 Electric light testing
      Cf. TP754 Gas light testing
Physical optics
392
   Periodicals, societies, congresses, serial publications
393
   Collected works (nonserial)
393.2
   Dictionaries and encyclopedias
394
   Early works through 1800
   General works, treatises, and advanced textbooks
395
   1801-1969
395.2
   1970-
396
   Elementary textbooks
397
   Addresses, essays, lectures
Optics. Light
Physical optics -- Continued

397.5.A-Z  Special topics, A-Z
397.5.I53  Images
397.5.O77  Optical losses
Study and teaching. Research
  General works
398  Problems, exercises, examinations
Theories of light
  General works
401  Corpuscular theory
  Cf. QC446.15+ Quantum optics
402  Wave theory
  Cf. QC669+ Electromagnetic theory
403  Miscellaneous speculations
406  Velocity of light
Interference
  Including Newton's rings, interferometer
  Cf. QH212.I5 Interference microscopes
410.9  Periodicals, societies, congresses, serial publications
411  General works, treatises, and textbooks
411.4  Instruments and apparatus
      Diffraction
414.8  Periodicals, societies, congresses, serial publications
414.9  Collected works (nonserial)
415  General works, treatises, and textbooks
416  Addresses, essays, lectures
417  Instruments and apparatus
      Including diffraction gratings
Reflection
  General works
425  Juvenile works
425.2  Instruments and apparatus
      Including reflectometers
Refraction
  Collected works (nonserial)
425.9  General works, treatises, and textbooks
426  Juvenile works
426.2  Instruments and apparatus
      Including refractometers
426.4  Handbooks, tables, formulas, etc.
426.8.A-Z  Special topics, A-Z
426.8.D68  Double refraction
426.8.N44  Negative refraction
Scattering (General)
427  Periodicals, societies, congresses, serial publications
427.4  General works, treatises, and textbooks
427.6  Handbooks, tables, formulas, etc.
427.8.A-Z  Special topics, A-Z
427.8.C7  Critical opalescence
427.8.C73  Critical scattering
427.8.M5  Mie scattering
427.8.R3  Rayleigh scattering
427.8.S64  Speckle
      Cf. TA1671+ Lasers and laser applications
Dispersion
Optics, Light
Physical optics
  Dispersion -- Continued
  General works
  Anomalous dispersion
  Incidence
    Including grazing incidence
Polarization
  Cf. QD481 Stereochemistry
  Cf. TP382 Saccharimetry
  Periodicals, societies, congresses, serial publications
  General works, treatises, and textbooks
  Addresses, essays, lectures
  Production and measurement
  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+
  Periodicals, societies, congresses, serial publications
  General works, treatises, and textbooks
  Special topics, A-Z
446.3.A54
  Angular momentum
    Including optical vortices
  Chaos
  Harmonics (Electric waves)
  Optical bistability
  Optical phase conjugation
  Optical pumping
  Squeezed light
  Magnetooptics see QC675+
(447)
  Electronic optics
    see QC793.5.E62+
Fiber optics
  Cf. TA1800+ Applied fiber optics
  Periodicals, societies, congresses, serial publications
  General works, treatises, and textbooks
  Addresses, essays, lectures
Holography
  Cf. HD970-5.H34+ Holography industry
  Cf. QC244.5 Acoustic holography
  Cf. TA1540+ Applied holography
General works
449
  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
  Periodicals, societies, congresses, serial publications
  Collected works (nonserial)
  Dictionaries and encyclopedias
Optics. Light
Spectroscopy -- Continued

450.5  History
451  General works, treatises, and textbooks
451.2  Pictorial works and atlases
451.4  Addresses, essays, lectures
451.6  Special aspects of the subject as a whole
        Study and teaching. Research
451.8  General works
451.82  Laboratory manuals
452  Data processing
452.5  Instruments and apparatus
453  Handbooks, tables, formulas, etc.
        Including wavelength tables
454.A-Z  Special types of spectra and spectroscopy, A-Z
454.A2  Absorption spectra
454.A25  Accelerator mass spectrometry
454.A7  Alpha ray spectroscopy see QC793.5.A22+
454.A8  Arc spectra
454.B39  Band spectra see QC454.M6
454.B42+  Beta spectroscopy see QC793.5.B42+
454.B74  Broadband dielectric spectroscopy
454.C64  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.H33  Hadamard transform spectroscopy
        Hadron spectroscopy see QC793.5.H32+
454.H618  High resolution spectroscopy
454.H9  Hyperfine spectra
        In-beam gamma ray spectroscopy see QC793.5.G32+
        Infrared spectrum see QC457
454.I48  Integral field spectroscopy
454.I5  Internal reflection spectroscopy
454.L3  Laser spectroscopy
454.L58  Level-crossing spectroscopy
454.L63  Light-beating spectroscopy
        Luminescence spectroscopy see QC476.6
        Magnetic resonance spectroscopy see QC762
454.M3  Mass spectroscopy
454.M32  Matrix isolation spectroscopy
454.M5  Microwave spectroscopy
454.M6  Molecular spectroscopy
        Mössbauer spectroscopy see QC491
        Neutron spectroscopy see QC793.5.N462+
        Nuclear magnetic resonance spectroscopy see QC762
454.N8  Nuclear spectroscopy
        Cf. QC793.5.A22+ Particle spectra
454.O65  Optical admittance spectroscopy
454.O66  Optical spectroscopy
Optics. Light
Spectroscopy

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

454.O68  Optogalvanic spectroscopy

454.P46  Photodetachment threshold spectroscopy

454.P48  Photoelectron spectroscopy

454.R3  Plasma spectroscopy see QC718.5.S6

454.R36  Radiofrequency spectroscopy

454.R4  Reflectance spectroscopy

454.R47  Resonance ionization spectroscopy

454.R5  Resonant ultrasound spectroscopy

454.R56  Rotational spectra see QD481

454.S7  Spark spectroscopy

454.T47  Terahertz spectroscopy

454.T75  Time-of-flight mass spectroscopy see QC454.M3

454.V5  Ultraviolet spectroscopy see QC459+

455  Solar spectrum

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

457  Infrared spectrum

8 Cf. TA1570+ Infrared technology

459  Ultraviolet spectrum

8 Cf. TA1501+ Applied optics. Lasers

459.5  General works

462.A-Z  Spectra of special substances

462.C65  Special elements and groups of elements, A-Z (Table Q1 modified)

462.M47  Colloids

462.M49  Metal vapors

462.R2  Metals

462.R85  Rare earths

462.T85  Trace elements

462.T86  Transition metals

463.A4  Organic compounds

463.A47  General works, treatises, and textbooks

463.A8  Handbooks, tables, formulas, etc.

463.A84  Special organic compounds, A-Z

463.A86  Alcohols

463.A87  Anthracene and derivatives

463.A88  Alkaloids

463.A89  Amines

463.A94  Anthraquinones

463.B4  Benzene

463.B5  Biphenyl compounds

463.C3  Carbohydrates

463.C5  Chelates

463.C54  Chlorophyll
Optics. Light
Spectroscopy
Spectra of special substances
Organic compounds
Special organic compounds, A-Z -- Continued

463.C57  Chroman
463.C78  Coordination compounds
463.E68  Essences and essential oils
463.E69  Esters
463.E7   Ethers and oxides
463.F55  Fluorocarbons
463.F6   Formaldehyde
463.F8   Furans
463.G84  Gums and resins
463.H4   Heterocyclic compounds
463.H9   Hydrocarbons
463.I44  Imidazole
463.I5   Indole alkaloids
463.M38  Metal carbonyls
463.N35  Naphthoquinone
463.O7   Organometallic compounds
463.O72  Organophosphorus compounds
463.O73  Organosilicon compounds
463.P46  Plasticizers
463.P5   Polymers
463.P55  Polyurethanes
463.P6   Porphyrin
463.P7   Proteins
463.P92  Pyridines
463.Q5   Quinoline
463.Q54  Quinone
        Resins see QC463.G84
463.S23  Saccharides
463.S72  Solvents
463.S8   Steroids
463.S9   Sulfur organic compounds
463.S94  Surface active agents
463.T4   Terpenes
464.A43  Alkali metal halides
464.A44  Alkaline earth ferricyanides
464.A47  Ammonia
464.B67  Borates
464.C34  Calcium fluoride
464.C37  Carbon dioxide
464.C375 Carbon disulfide
464.F45  Ferroelectric crystals
464.F87  Fused salts
464.G55  Glass
464.H93  Hydrides
464.H934 Hydrochloric acid
464.H936 Hydrogen fluoride
464.M47  Mercury compounds
464.M48  Metallic oxides
464.M53  Mica
464.N57  Nitrates
Optics. Light
Spectroscopy
Spectra of special substances
Inorganic substances, A-Z -- Continued

464.N574 Nitric acid
464.N577 Nitrogen dioxide
464.N64 Nonmetallic minerals
464.P44 Phosphates
464.P46 Phosphorus compounds
464.P68 Potassium hydride
464.P685 Potassium phosphates
464.Q37 Quartz
464.S45 Selenium compounds
464.S54 Silicates
464.S546 Silver chloride
464.S63 Sodium halides
464.S635 Sodium hydride
464.S637 Sodium nitroferricyanide
464.S94 Sulfur dioxide
464.T44 Tellurium chlorides
464.T54 Thallium chloride
464.U73 Uranium compounds
464.W37 Water
464.Z57 Zirconium oxide
465 Instruments and apparatus
  Including absorptionmeter

467 Structure of spectral lines. Effect of pressure. Stark effect, etc.
  Cf. QC675.5.Z4 Zeeman phenomenon

Radiation physics (General)
  Cf. QA935+ Wave propagation in elastic solids
  Cf. QB531 Astronomy
  Cf. QC191 Elastic properties of solids
  Cf. QC331+ Thermal radiation
  Cf. QC787.C6 Nuclear counters, etc.
  Cf. QC793.5.A+ Radiation of special particles
  Cf. QC910.2+ Solar radiation
  Cf. QD601+ Radiation chemistry
  Cf. QP82.2.R3 Physiological effect

474 Periodicals, societies, congresses, serial publications
474.5 Collected works (nonserial)
475 General works, treatises, and textbooks
475.25 Juvenile works
475.5 Study and teaching. Research
475.6 Special aspects of the subject as a whole
475.7 Technique
475.8 Instruments and apparatus
476.A-Z Special topics, A-Z
476.C6 Coherence
  Duality, Wave-particle see QC476.W38
476.S6 Sources of radiation
476.S86 Superradiance
476.W38 Wave-particle duality
  Cf. QC401+ Theories of light

Luminescence
  Cf. QC976.A3 Airglow
  Cf. QD505.8 Chemiluminescence
Radiation physics (General)
Luminescence -- Continued

476.4 Periodicals, societies, congresses, serial publications
476.45 Collected works (nonserial)
476.5 General works, treatises, and textbooks
476.6 Luminescence spectroscopy
   Luminescent materials. Phosphors. Scintillators
      Cf. QC787.S34 Scintillation counters
476.7 General works
476.75 Inorganic scintillators
476.77 Organic scintillators
Photoluminescence (General)
476.8 General works
Fluorescence
477 General works
477.2 Instruments and apparatus
   Including fluorimeters
477.4 Sensitized fluorescence
Phosphorescence
   Cf. QD79.P4 Phosphorimetry
   Cf. QH641 Bioluminescence
   Cf. TK454.4.P5 Phosphors (Electrical engineering)
   Cf. TK7871.15.P4 Phosphors (Electronics)
477.8 Periodicals, societies, congresses, serial publications
477.9 Collected works (nonserial)
478 General works, treatises, and textbooks
479 Thermoluminescence
479.5 Cathodoluminescence
480 Electroluminescence
480.2 Sonoluminescence
X-rays. Roentgen rays
   Cf. QB472+ X-ray astronomy
   Cf. QC710+ Discharges through gases
   Cf. QH212.X2 X-ray microscopes
   Cf. RC78+ Medical radiography
   Cf. RM845+ Radiotherapy
   Cf. TR750 Radiography (Photography)
480.8 Periodicals, societies, congresses, serial publications
480.9 Dictionaries and encyclopedias
481 General works, treatises, and textbooks
481.5 Instruments and apparatus
   Cf. RC78.5 Radiography
   Cf. RM862.5 Radiotherapy
   Cf. TR750 Applied photography
482.A-Z Special topics, A-Z
   Crystallography see QD945
482.D5 Diffraction
482.G68 Grenz rays
482.P6 Polarization
482.S3 Scattering
482.S6 Spectroscopy
   Study and teaching. Research
482.2 General works
482.3 Experiments
(483) Electric radiations (General)
   see QC660.5+
Radiation physics (General) -- Continued

484
   Blackbody radiation
   Bremsstrahlung

484.2
   Periodicals, societies, congresses, serial publications

484.3
   General works, treatises, and textbooks

484.5
   Study and teaching. Research

484.6.A-Z
   Special topics, A-Z

484.6.I5
   Inner Bremsstrahlung

Cosmic ray physics

   Cf. QB463+ Nuclear astrophysics
   Cf. QC770+ Nuclear physics
   Cf. QC809.V3 Van Allen radiation belts

484.8
   Periodicals, societies, congresses, serial publications

484.85
   Collected works (nonserial)

484.9
   History

485
   General works, treatises, and textbooks

485.4
   Popular works

485.42
   Juvenile works

485.5
   Addresses, essays, lectures

485.55
   Special aspects of the subject as a whole
   Observations. Data summaries

485.57
   General works, treatises, and textbooks

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

485.6
   Technique

485.7
   Instruments and apparatus
   Cf. QC785.5+ Nuclear instruments and apparatus

485.75
   Handbooks, tables, formulas, etc.

485.8.A-Z
   Special topics, A-Z

485.8.B8
   Bursts
   Cosmic ray particles see QC793.3.C6

485.8.F6
   Forbush decreases

485.8.O7
   Origin

485.8.S5
   Showers

485.8.S8
   Stars

485.8.V3
   Variations, Diurnal, etc.
   Including effects due to altitude, longitude, etc.

485.9.A-Z
   Special types, A-Z

485.9.A8
   Atmospheric cosmic rays

485.9.G34
   Galactic cosmic rays

485.9.P7
   Primary cosmic rays

485.9.S4
   Secondary cosmic rays

485.9.S6
   Solar cosmic rays

485.9.U6
   Underground cosmic rays

Other radiations
   Alpha radiations see QC793.5.A22+
   Beta rays see QC793.5.B42+
   Cherenkov radiation

490.4
   General works, treatises, and textbooks
   Instruments and apparatus see QC787.C6

   Gamma rays see QC793.5.G32+
   Infrared rays. Infrared spectrometry see QC457
   Radiation and spectra of isotopes see QC795.8.S6

491
   Mössbauer effect. Mössbauer spectroscopy
   Scintillation spectroscopy

491.5
   Periodicals, societies, congresses, serial publications

492
   General works, treatises, and textbooks
Radiation physics (General)

Other radiations
- Scintillation spectroscopy -- Continued
  Instruments and apparatus see QC787.S34
- Van Allen radiation see QC809.V3

Color
- Cf. BF789.C7 Psychology
- Cf. ML3840 Music and color
- Cf. QD113 Colorimetry in analytic chemistry
- Cf. QD473 Color in relation to atomic structure
- Cf. QP483 Physiological effect
- Cf. RM840 Phototherapy
- Cf. TR510+ Color photography
- Cf. TR977 Photomechanical color processes

494
Periodicals, societies, congresses, serial publications
494.15
Collected works (nonserial)
494.2
Dictionaries and encyclopedias
494.3
Nomenclature, terminology, notation, abbreviations
494.7
History
494.8
Early works through 1800
495
General works, treatises, and advanced textbooks
495.15
Elementary textbooks
495.2
Pictorial works and atlases
495.3
Popular works
495.5
Juvenile works
495.7
Addresses, essays, lectures
495.8
Special aspects of the subject as a whole
  Study and teaching. Research
496
General works
496.15
Outlines, syllabi
496.3
Experiments
496.4
Laboratory manuals
496.6
Instruments and apparatus
  Including colorimeters
496.8
Handbooks, manuals, etc.
496.9
Miscellany and curiosa

Electricity and magnetism
- Cf. QC960.5+ Atmospheric electricity
- Cf. TK1+ Electrical engineering

Electricity
- Including works that deal collectively with electricity and magnetism
  For electric properties of solids see QC176.8.E35
501
Periodicals, societies, congresses, serial publications
503
Collected works (nonserial)
505
Dictionaries and encyclopedias
506
Philosophy. Theory
506.5
Nomenclature, terminology, notation, abbreviations
507
History

Biography
514
Collective
515.A-Z
Individual, A-Z
  e.g.
515.A6
  Ampère
515.O4
  Ohm

Early works
516
Through 1700
Electricity and magnetism

Electricity

Early works -- Continued

517
1701-1850
General works, treatises, and advanced textbooks
1851-1969

518
Treatises

521
Descriptive and experimental works

522
1970-

523
Elementary textbooks

527
Popular works

527.2
Juvenile works

527.4
Addresses, essays, lectures

527.5
Special aspects of the subject as a whole

528.A-Z
Special topics, A-Z

528.E4
Electromechanical analogies
Maxwell's equations see QC669+

528.V4
Vector theory

529
Handbooks, tables, formulas, etc.
Study and teaching, Research
For programmed texts see QC518+

530
General works

531
Outlines, syllabi

532
Problems, exercises, examinations

533
Experiments

534
Laboratory manuals

Electric measurements
Cf. TK275+ Electrical engineering

535
General works

536
Electric units

537
Standards

Laboratories

541.A1
General works

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

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

(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
Electricity and magnetism

Electricity

Instruments and apparatus (General)

Special instruments, A-Z -- Continued

544.Q3 Quadruple lenses

(544.V3) Vacuum tubes

see TK7871.72+

561 Miscellany and curiosa

Electrostatics. Frictional electricity

Cf. QA825+ Attractions and potential
Cf. QC960.5+ Atmospheric electricity
Cf. TP156.E5 Electrostatic separation

570 Periodicals, societies, congresses, serial publications
571 General works, treatises, and textbooks
571.4 Juvenile works
571.5 Addresses, essays, lectures

Study and teaching. Research

572 General works
572.4 Experiments
573 Instruments and apparatus

Including frictional and induction machines

577 Electrocapillary phenomena

581.A-Z Other topics, A-Z
581.E4 Electric charge and distribution
581.I5 Induction
581.P6 Potential difference
581.V6 Volta effect

Dielectrics

Cf. TK3401+ Electric insulation

584 Periodicals, societies, congresses, serial publications
584.2 Collected works (nonserial)
585 General works, treatises, and textbooks
585.4 Addresses, essays, lectures
585.5 Study and teaching. Research
585.7.A-Z Special topics, A-Z
585.7.B7 Breakdown
585.7.C6 Constant
585.7.D5 Dielectrophoresis
585.7.E43 Electric discharge
585.7.H4 Heating
585.7.L6 Loss
585.7.M3 Magnetic properties
585.7.O6 Optical properties
585.7.R3 Radiation effects
585.7.R4 Relaxation
585.7.A-Z Specific dielectric substances, A-Z
585.7.S55 Silica
585.7.T58 Titanates
585.8.A-Z Special types of dielectrics, A-Z
585.8.E4 Electrets
585.8.G38 Gaseous
585.8.L56 Liquid
589 Measurement of capacity

Cf. TK2805 Condensers (Dynamoelectric machinery)
Cf. TK7872.C65 Condensers (Electronics)
Electricity and magnetism

Electricity

Electrostatics. Frictional electricity -- Continued

595

Pyroelectricity

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

595.5

Piezoelectricity

Cf. TK7872.P54 Piezoelectric devices

Ferroelectricity

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

596

Periodicals, societies, congresses, serial publications

596.5

General works, treatises, and textbooks

596.9

Addresses, essays, lectures

Electric current (General)

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

601

General works

607

Ohm's law

(610)

Conduction in gases and vapors
see QC710+

Electric conductivity

Cf. TK3301+ Electric conductors

610.3

Periodicals, societies, congresses, serial publications

610.4

General works, treatises, and textbooks

Electric resistance

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

610.6

General works

610.7

Magnetoresistance

Semiconductor physics

Class here general works on the physical properties of semiconductor 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
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Semiconductor physics

Special topics, A-Z -- Continued

Energy-band theory see QC176.8.E4

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Superconductivity physics

Cf. QC175.4+ Superfluid physics

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611.922 Juvenile works
611.924 Handbooks, tables, formulas, etc.

Superconducting materials. Superconductors

Cf. QC761.3 Superconducting magnets
Cf. TK7872.C77 Cryoelectronic devices
Cf. TK7872.S8 Engineering
Cf. TK7895.C7 Cryotrons

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611.97.T54 Thermal properties

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Cf. TK7872.H3 Hall effect devices

612.P5
Photoconductivity

Cf. TK8330+ Photoconductive cells

612.P6
Potential barrier

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Skin effect

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613
Electric resonance

Cf. QC762 Nuclear magnetism

Cf. QC794.6.R4 Nuclear interaction

615
Measurements of currents

Including ammeters, voltameters

618
Electromotive force

Including voltmeters

Thermoelectricity. Thomson effect. Peltier effect

Cf. TK2950+ Applied thermoelectricity

621
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623
Heating effects of currents

625
Electrokinetics

Electrodynamics

Cf. QA920 Magnetohydrodynamic theory

Cf. QC717+ Ion flow dynamics

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

Cf. QC809.E55 Geophysics

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631.2
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631.8
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641
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Cf. TK1141+ Alternating current engineering

Cf. TK2711+ Alternating current machinery

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642.5
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643.5
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643.7.P7
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Cf. TK2391 Electric coils (Dynamoelectric machinery)
Cf. TK2805 Condensers (Dynamoelectric machinery)
Cf. TK7872.C56 Electronics

648

Vacuum polarization

Electric oscillations. Electric waves

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

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665.D3

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Aberrations and moving media

Cf. QB163 Correction of astronomical observations

Electrooptics (General)

Cf. TA1750+ Applied electrooptics

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Kerr effect

Magnetooptics (General)

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675.5.Z4

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Cf. QC972.6+ Radio meteorology

Cf. TK6540+ Radio engineering

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Cf. QC718.5.M5 Plasma physics

Cf. TK7871.4 Masers

Cf. TK7876+ Electronics

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678.2

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Cf. QC793.3.E4 Elementary particle physics

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Cf. TK7871.4 Masers

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Cf. QC972.6+ Radio meteorology
Cf. QD561+ Electrochemistry
Cf. QD601+ Radiochemistry

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Cf. QC787.16 Ionization chambers

702.5
Ionization of specific gases, liquids, etc.

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702.7.B65
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702.7.E38
Electron impact ionization

702.7.E4
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702.7.H42
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702.7.I55
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702.7.I57
Ion swarms

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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

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Positive ions

702.7.R4
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702.7.S3
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Cf. QC966+ Lightning

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Exploding wire phenomenon

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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

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711.8.A34
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711.8.B7
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711.8.D5
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Electric discharge through gases

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711.8.P6
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711.8.R35
Radio frequency discharges

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

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Photoelectric properties of special substances

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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

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718.5.D38
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718.5.E37
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718.5.L58
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718.5.L6
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718.5.M3
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Cf. QA920 Magnetohydrodynamic theory
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Magnetism
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- Cf. QC176.8.M3 Solid-state physics
- Cf. QC718.5.M36 Plasma physics
- Cf. QC811+ Geomagnetism
- Cf. QD591 Magnetochemistry

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    - 1801-1969
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      Cf. TJ1366 Lifting magnets
      Cf. TK454.4.E5 Electrical engineering
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    761.4    Ferrimagnetism
      Cf. QC766.F3 Ferrites
    761.5    Ferromagnetism. Antiferromagnetism
    761.8    Thermomagnetism
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    761.9    General works
    762    Nuclear magnetic resonance
    762.6.A-Z  Other special topics, A-Z
    762.6.A25  Acoustic nuclear magnetic resonance
    762.6.E45  Electron nuclear double resonance
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Cf. QC787.N78 Nuclear emulsions

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Cf. TK9202+ Nuclear reactor engineering

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Cf. QC793.5.T42+ Elementary particle physics

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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
Nuclear and particle physics. Atomic energy. Radioactivity

Nuclear fission -- Continued

790.4.A-Z Special topics, A-Z
790.4.A6 Angular distribution
   Delayed neutrons see QC793.5.D42+
790.4.E6 Energy loss
790.4.F5 Fission products (General)
   Neutron transport theory see QC793.3.T7
790.4.P4 Photofission
790.4.P5 Pile theory
790.4.S9 Symmetrical fission
790.6 Instruments and apparatus
790.8.A-Z Fission of specific elements, A-Z (Table Q1)

Nuclear fusion
   Cf. UG1282.A8 Hydrogen bomb
790.95 Periodicals, societies, congresses, serial publications
790.97 Collected works (nonserial)
791 General works, treatises, and textbooks
791.4 Popular works
791.5 Juvenile works
791.6 Addresses, essays, lectures
   Controlled fusion
591.7 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 and particle physics. Atomic energy. Radioactivity

Atomic energy -- Continued

Nuclear regulatory commissions

791.948
General works

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

791.96
History

791.98
Directories

792
General works, treatises, and textbooks

792.4
Popular works

792.5
Juvenile works

792.6
Addresses, essays, lectures

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

792.72.A-.Z8
General works

792.72.Z9
Catalogs of audiovisual materials
   By region or country

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
Nuclear and particle physics. Atomic energy. Radioactivity
Elementary particle physics
Special topics, A-Z -- Continued
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
793.3.F5 Field theories
Flavor see QC793.3.Q37
793.3.G38 Gauge fields
Including gauge theories
793.3.G46 Geometry, Algebraic
793.3.H44 Helicity
793.3.H5 High energy physics
Invariance see QC793.3.S9
Ionospheric influences see QC793.3.C6
Isospin see QC793.3.S6
793.3.K5 Kinematics
793.3.L53 Lie algebras
Lifetime see QC793.3.D4
Magnetic dipole moment see QC793.3.S6
793.3.M3 Magnetic fields
793.3.M36 Matrix theories
Molecules, Nuclear see QC793.3.N82
Momentum see QC793.3.S6
Nuclear cluster theory see QC793.3.S8
Nuclear emulsions see QC793.47.P4
Nuclear forces see QC793.3.B5
793.3.N8 Nuclear matter
Nuclear models see QC793.3.S8
793.3.N82 Nuclear molecules
Nuclear orientation see QC793.3.S6
793.3.N83 Nuclear shapes
Particle accelerators see QC787.P3
Particle beams see QC793.3.B4
Phase shift see QC794.6.S3
Photography. Nuclear emulsions see QC793.47.P4
Polarization see QC794.6.S3
Problem of many bodies see QC174.17.P7
793.3.Q35 Quantum chromodynamics
793.3.Q37 Quantum flavor dynamics
Quantum theory see QC174.45+
793.3.R4 Regge trajectories
Cf. QC174.17.G7 Group theory applied to quantum theory
Relaxation see QC762.6.R44
Renormalization theory see QC174.17.R46
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
Nuclear and particle physics. Atomic energy. Radioactivity
Elementary particle physics
Special topics, A-Z -- Continued
Spectroscopy see QC454.N8
793.3.S7 Statistical mechanics
793.3.S8 Structure
  Including nuclear models and nuclear cluster theory
793.3.S9 Symmetry. Invariance
  Cf. QC174.17.S9 Quantum theory
793.3.T67 Tracks
  Transitions see QC454.N8
793.3.T7 Transport theory
793.3.V5 Violations
793.3.W3 Wave mechanics
793.3.W4 Weight diagrams
Study and teaching. Research
793.4 General works
793.412 Experiments
793.42 Problems, exercises, examinations
  Technique
793.46 General works
793.47.A-Z Special, A-Z
793.47.E4 Electronic data processing
793.47.P4 Photography. Nuclear emulsions
793.47.S83 Statistical methods
  Instruments and apparatus see QC785.5+
793.49 Miscellany and curiosa
793.5.A-Z Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z
793.5.A22-.A229 Alpha particles. Alpha rays (Table Q2)
793.5.A25-.A259 Anyons (Table Q2)
793.5.B32-.B329 Baryons (Table Q2)
793.5.B42-.B429 Beta particles. Beta rays (Table Q2)
793.5.B62-.B629 Bosons (Table Q2)
  Including intermediate, W, and Z bosons
793.5.C64-.C649 Cold neutrons (Table Q2)
  Including ultracold neutrons
793.5.D42-.D429 Delayed neutrons (Table Q2)
793.5.D442-.D4429 Delayed protons (Table Q2)
793.5.D482-.D4829 Deuterons (Table Q2)
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+
Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

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

Continued

793.5.L42-.L429

Leptons (Table Q2)

Cf. QC793.5.H34+ Heavy leptons
Cf. QC794.8.W4 Weak interactions

793.5.M32-.M329

Magnons (Table Q2)

793.5.M42-.M429

Mesons (Table Q2)

Including kaons, muons, and pions

Muons see QC793.5.M42+

793.5.N42-.N429

Neutrinos (Table Q2)

793.5.N462-.N4629

Neutrons (Table Q2)

793.5.N82-.N829

Nucleons (Table Q2)

793.5.N862-.N8629

Nuclides (Table Q2)

Phonons see QC176.8.P5

793.5.P42-.P429

Photons (Table Q2)

Cf. QC176.8.P6 Polaritons
Cf. QC794.8.E4 Electromagnetic interactions

Pions see QC793.5.M42+
Polarons see QC176.8.P62

793.5.P58-.P589

Pomerons (Table Q2)

793.5.P62-.P629

Positrons (Table Q2)

793.5.P642-.P6429

Prompt neutrons (Table Q2)

793.5.P72-.P729

Protons (Table Q2)

793.5.Q252-.Q2529

Quarks (Table Q2)

793.5.Q32-.Q329

Quasi-particles (Table Q2)

Sigma particles see QC793.5.H42+

793.5.S62-.S629

Slow neutrons (Table Q2)

793.5.S72-.S729

Strange particles (Table Q2)

793.5.T32-.T329

Tachyons (Table Q2)

793.5.T37-.T379

Thermal electrons (Table Q2)

793.5.T42-.T429

Thermal neutrons (Table Q2)

W bosons see QC793.5.B62+

Y-particles see QC793.5.H42+

Z bosons see QC793.5.B62+

Nuclear interactions

Cf. QC454.N8 Nuclear spectroscopy

793.9
Periodicals, societies, congresses, serial publications

793.95
Collected works (nonserial)

794
General works, treatises, and textbooks

794.5
Addresses, essays, lectures

794.6.A-Z
Special topics, A-Z

794.6.A5
Angular distribution. Angular correlations

794.6.C58
Coherence

794.6.C6
Collisions

794.6.C7
Cross section of interactions

Decay see QC794.6.R3

794.6.E9
Excitation

Cf. QC795.8.E5 Energy levels

794.6.F4
Feynman diagrams

794.6.F65
Form factor

794.6.G7
Grand unified theories

794.6.I5
Internal conversion

794.6.I8
Isotone shift. Isotope shift

794.6.K5
Kinematics
Nuclear and particle physics. Atomic energy. Radioactivity

Nuclear interactions

Special topics, A-Z -- Continued

794.6.M6
Moments

794.6.M85
Multiplicity

794.6.R25
Radiative capture

794.6.R3
Radioactivity. Decay

794.6.R4
Resonance. Resonance integral

794.6.S3
Scattering

Including elastic scattering, inelastic scattering, polarization, etc.

794.6.S75
Standard model

794.6.S8
Stopping power

794.6.S85
String models

Including superstring theories

Transitions see QC454.N8

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

794.8.D57
Direct

794.8.E35
Effective

794.8.E4
Electromagnetic

Cf. QC793.5.P42+ Photons

794.8.E44
Electroweak

794.8.E93
Exclusive

794.8.G7
Gravitational

794.8.H4
Heavy ion induced

Including heavy ion collisions

794.8.H5
High energy

Cf. QC793.3.H5 High energy physics

Hyperfine see QC762.6.H94

794.8.I52
Inclusive

794.8.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
Nuclear and particle physics. Atomic energy. Radioactivity
  Radioactivity and radioactive substances
    Special topics, A-Z -- Continued
  795.32.S3
    Safety measures for physicists
      Cf. RA1231.R2 Toxicology
      Cf. TK9152+ Nuclear engineering
  Study and teaching. Research
  795.34
    General works
  795.36
    Experiments
  795.38
    Laboratory manuals
  Laboratories see QD604.8+
  Technique
    Cf. TK9151.4+ Radiation environment procedures
  795.4
    General works
  795.42
    Measurement of radioactivity and ionizing radiation
  795.5
    Instruments and apparatus (General)
      For individual instruments see QC785.5+
  795.52
    Handbooks, tables, formulas, etc.
  795.55.A-Z
    Special types of radioactivity, A-Z
  795.55.I5
    Induced radioactivity
  Radioactive substances and radioisotopes
    Cf. TK9400+ Nuclear engineering
  795.6
    Periodicals, societies, congresses, serial publications
  795.64
    Dictionaries and encyclopedias
  795.7
    General works, treatises, and textbooks
  795.74
    Juvenile works
  Study and teaching. Research
  795.76
    General works
  795.77
    Experiments
  795.78
    Laboratory manuals
  795.8.A-Z
    Special topics, A-Z
      Prefer classification by specific substance in QC796
  795.8.D4
    Decay
  795.8.E5
    Energy levels
  795.8.F5
    Fission products
  795.8.H3
    Half-life
  795.8.I5
    Internal conversion
    Isobars, Nuclear see QC795.8.N8
  795.8.N8
    Nuclear isomers. Nuclear isobars
  795.8.R3
    Radionuclides
  795.8.S6
    Spectra
      For spectra of specific substances see QC462+
      Standards see TK9400+
  795.8.T45
    Thermal properties
    Transportation see HE199.5.R3+
  796.A-Z
    Special radioactive substances and radioisotopes, A-Z (Table Q1)
  796.2
    Superheavy elements
      Cf. QD172.S93 Inorganic chemistry
  Applications
    For applications in special fields, see the field, e.g. QH324.3, Tracers in biological research;
    RM858, Radioisotopes in therapeutics; TK9400-9401, Radioactive substances in industry
  798.A1
    General works, treatises, and textbooks
  798.A2-Z
    Individual, A-Z
  798.D3
    Dating
  798.T7
    Tracers
Geophysics. Cosmic physics

Cf. GB5000+ Natural disasters

801 Periodicals, societies, congresses, serial publications
801.3 International Geophysical Committee. International Geophysical Year
801.4 International Years of the Quiet Sun
801.5 Collected works (nonserial)
801.9 Dictionaries and encyclopedias

Observations
802.A1 General works, treatises, and textbooks
802.A2-Z By name of issuing observatory, A-Z
    Prefer QC803
803.A-Z By region or country, A-Z

804 History

805.A2 Collective
805.A3-Z Individual, A-Z

806 General works, treatises, and textbooks
806.4 Juvenile works
806.6 Addresses, essays, lectures
807 Special aspects of the subject as a whole
    Study and teaching. Research
807.5 General works
807.52 Problems, exercises, examinations
807.6.A-Z By region or country, A-Z

Observatories
808.A2 General works
808.A5-Z By region or country, A-Z
    Under each country:
    .x General works
    .x2A-.x2Z Individual observatories. By name, A-Z

808.5 Technique. Instructions for observers
808.6 Data processing
808.7 Instruments and apparatus
808.8 Handbooks, tables, formulas, etc.
809.A-Z Special topics, A-Z
809.A25 Acoustic phenomena
809.C6 Cosmic noise
809.E15 Earth radiation see QC809.T4
809.E2 Earth resistance
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+
Geophysics. Cosmic physics
   Special topics, A-Z -- Continued
      Space plasmas see QC809.P5
809.S67  Spectral theory
809.T38  Terrestrial heat flow
809.T4   Terrestrial radiation
809.V3   Van Allen radiation belts

Geomagnetism
   Cf. QC750+ Magnetism
   Cf. QE501.4.P35 Paleomagnetism
811     Periodicals, societies, congresses, serial publications
811.15  Collected works (nonserial)
813     History
814     Early works through 1800
   General works, treatises, and textbooks
515     1801-1969
515.2    1970-
515.5    Juvenile works
515.7    Addresses, essays, lectures
516     Special aspects of the subject as a whole
   Observatories
518.A2   General works
518.A5-Z By region or country, A-Z
      Under each country:
         .x General works
         .x2A-x2Z Individual observatories. By name, A-Z
519     Instruments and apparatus
      Including magnetometer
520     Technique. Instruction for observers
520.6    Data processing
521     Handbooks, tables, formulas, etc.
522     Maps and mapping
      Including construction, use, and interpretation of maps
Magnetic surveys
   Geographic areas below are not subarranged by country
525     General works
525.1    North America
525.2    Mexico, Central America, and West Indies
525.3    South America
525.4    Europe
525.5    Asia
525.6    Africa
525.7    Australia
525.75   New Zealand
525.8    Arctic regions
525.9    Antarctica
526.A-Z  Oceanic areas, A-Z
Geomagnetic field (Analysis and theory)
527     General works
528     Secular variation
Magnetic observations
530.A-Z  General works. By name of issuing observatory, A-Z
531     Diurnal variations
533     Other periodic variations
535     Magnetic disturbances
      Including magnetic storms
Geomagnetism
Magnetic observations -- Continued
Geomagnetism and related aspects
836
Sunspot periods
837
Eclipses
839
Meteorological phenomena
841
Geological structure
843
Earthquakes
845
Earth currents
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
Meteorology. Climatology
Special topics, A-Z -- Continued

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
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 curiosities
  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
Meteorology. Climatology
Aeronomy. Upper atmosphere -- Continued

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

879.3
Periodicals, societies, congresses, serial publications

879.35
General works, treatises, and textbooks

879.36
Addresses, essays, lectures
Astronautics in meteorology
  Including weather satellites, rockets, etc.

879.4
Periodicals, societies, congresses, serial publications

879.5
General works, treatises, and textbooks

879.53
Juvenile works

879.54
Addresses, essays, lectures

879.55.A-Z
Special topics, A-Z

879.55.P4
Photography
  Including automatic picture receiving and transmission, etc.
  Stations, networks, and programs

879.56
General works

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

879.57
Handbooks, tables, formulas, etc.
  Observations. Data summaries

879.59.A1
General works, treatises, and textbooks

879.59.A3-Z
By region or country, A-Z
  Atmospheric chemistry

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
Meteorology. Climatology
Dynamic meteorology
Special topics, A-Z -- Continued

880.4.A3  Adiabatic processes
880.4.A5  Air masses
          Cf. QC981.8.A5 Climatology
880.4.A8  Atmospheric circulation
880.4.B35 Baroclinicity
880.4.B55 Blocking
880.4.B65 Boundary layer
          Clear air turbulence see QC880.4.T8
880.4.C64 Convection
880.4.C65 Coriolis force
880.4.C79 Cryosphere
880.4.D44 Diffusion
880.4.D5  Divergence. Convergence
          Eddy flux see QC880.4.T8
880.4.E7  Equations of motion
880.4.F7  Fronts. Frontogenesis
880.4.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
Meteorology. Climatology -- Continued

Atmospheric pollutants
- Cf. QC929.D9 Dust (Aqueous vapor)
- Cf. TD881+ Air pollution

882
General works
Aerosols

882.4
Periodicals, societies, congresses, serial collections

882.42
General works, treatises, and textbooks

882.46
Technique

882.5
Dust
- Cf. TD884.5 Air pollution

882.6
Smoke plumes
- Cf. TD884 Air pollution

Cosmic relations. Influence on sun and moon, etc.

883
General works

883.2.A-Z
Special topics, A-Z

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
Meteorology. Climatology
  Atmospheric pressure -- Continued
  896
    Aneroid barometers and barographs
  Temperature and radiation
    Atmospheric temperature
      Cf. QC934.2 Wind chill
      Cf. TL557.A8 Aeronautical meteorology
    Observations
      Including distribution, isotherms
  901.A1
    General works, treatises, and textbooks
  901.A3-Z
    By region or country, A-Z
  902
    Instruments and apparatus
    Variations. Climatic changes
      Including global temperature changes, etc.
      For social aspects see HN49.C55
  902.8
    Periodicals, societies, congresses, serial publications
    Communication of information
  902.9
    General works
  902.92
    Information resources
  902.93
    Computer network resources
      Including the Internet
      Cf. QC981.8.G56 Global warming
  903
    General works, treatises, and textbooks
  903.15
    Juvenile works
  903.2.A-Z
    By region or country, A-Z
  905
    Winter temperatures
  906
    Summer temperatures
  (907)
    Temperature of the earth
        see QE509
    Temperature of the sea see GC160+
  (909)
    Temperature of rivers, lakes, and springs
        see GB651+
  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
  913
    Atmospheric radioactivity
  913
    General works
  913.2.A-Z
    Special topics, A-Z
  913.2.A8
    Atomic energy
      Including radioactive fallout
      Cf. TD887.R3 Radioactive pollution
Meteorology. Climatology
Temperature and radiation
Atmospheric radioactivity
Special topics, A-Z -- Continued
Radon
913.2.R3
Aqueous vapor
Humidity. Hygrometry
915
General works
Evaporation and evapotranspiration
915.5
General works
Observations. Data summaries
915.6
General works
915.7.A-Z
By region or country, A-Z
916
Instruments and apparatus
Including hydrometers, psychrometers, etc.
917
Handbooks, tables, formulas, etc.
920
Forms of water (General)
Clouds
Cf. TL557.C6 Aeronautical meteorology
920.7
Periodicals, societies, congresses, serial publications
920.8
Collected works (nonserial)
921
General works, treatises, and textbooks
921.3
Pictorial works and atlases
921.35
Juvenile works
921.37
Addresses, essays, lectures
Observations. Data summaries
921.375
General works, treatises, and textbooks
921.377.A-Z
By region or country, A-Z
Cloud forms and classification. Formation
921.4
General works
921.43.A-Z
Special forms, A-Z
921.43.C57
Cirrus
921.43.C78
Cumulonimbus
921.43.C8
Cumulus
921.43.N3
Nacreous (Mother-of-pearl)
Noctilucent see QC976.N6
921.43.S8
Stratus
Cloud physics
921.48
Periodicals, societies, congresses, serial publications
921.5
General works, treatises, and textbooks
921.55
Addresses, essays, lectures
921.6.A-Z
Special topics, A-Z
921.6.C6
Condensation nuclei
Including cloud droplets, ice crystals, etc.
921.6.C65
Convection
921.6.D95
Dynamics
921.6.E4
Electrification
921.6.T4
Thermodynamics of clouds
Observations of altitude, motion, etc.
922
General works, treatises, and textbooks
923
Instruments and apparatus
Including ceilometer
924.A-Z
By region or country, A-Z
Meteorology. Climatology
Aqueous vapor -- Continued
Rain and rainfall
  Cf. BV283.F3 Prayers for rain
  Cf. QE581 Erosion
  Cf. S622+ Soil conservation
  Cf. SD390.7.R34 Forest meteorology
  Cf. TD418 Rainwater (Water supply)

924.5 Periodicals, societies, congresses, serial publications
924.6 Collected works (nonserial)
924.7 Juvenile works
925 General works, treatises, and textbooks
Observations. By region or country
  North America, United States and Canada
  925.1.A1 North America (General)
    Canada
  925.1.C2 General works
  925.1.C3A-.C3Z By region, province, etc., A-Z
    United States
  925.1.U2-.U799 General works
  925.1.U8A-.U8Z By region or state, A-Z
    Mexico, Central America, and West Indies
  925.2.A1 General works
  925.2.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
    South America
  925.3.A1 General works
  925.3.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
    Europe
  925.4.A1 General works
  925.4.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
    Asia
  925.5.A1 General works
  925.5.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
    Africa
  925.6.A1 General works
  925.6.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
    Atlantic Ocean islands
  925.65.A1 General works
  925.65.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
    Australia
  925.7 General works
  925.71.A-Z Local, A-Z
    New Zealand
  925.72 General works
  925.73.A-Z Local, A-Z
    Pacific Ocean islands
  925.8.A1 General works
  925.8.A3-Z By country, island, or region, A-Z
    Subarrange each country or island by Table Q4
  925.82 Tropics
Meteorology. Climatology
Aqueous vapor
  Observations. By region or country -- Continued
925.9
  Arctic regions
925.95
  Antarctica
926
  Instruments and apparatus
    Including rain gauges
926.2
  Data processing
926.24
  Raindrops
    Including raindrop size
Snow. Ice. Blizzards
  Cf. GB641+ Frozen ground
  Cf. GB2401+ Ice on the ground
  Cf. GB2601+ Snow on the ground
926.3
  Periodicals, societies, congresses, serial publications
926.32
  General works, treatises, and advanced textbooks
926.36
  Pictorial works
926.37
  Juvenile works
    By region or country
      United States
926.43
  General works
926.44.A-Z
  By region or state, A-Z
    Subarrange each state by Table Q4
926.45.A-Z
  Other regions or countries, A-Z
    Subarrange each country by Table Q4
926.5
  Acid precipitation. Acid rain
    Cf. TD195.4+ Environmental pollutants
926.52
  Periodicals, societies, congresses, serial publications
926.55
  General works, treatises, and advanced textbooks
    By region or country
      United States
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
929.D5
  Dew formation
(929.D8)
  Droughts
    see QC929.2+
Meteorology. Climatology

Aqueous vapor

Other topics, A-Z -- Continued

929.D9 Dust influences
929.F7 Fog

Cf. TL557.F6 Aeronautical meteorology
929.F8 Forest influences
929.H4 Frost see QC929.H6
929.G4 Glaze
929.H15 Hail
929.H16 Hoarfrost
929.R17 Ice see QC926.3+
929.R2 Rain without clouds
929.S43 Rainmaking see QC928.6
929.S5 Sea salt aerosols
929.S6 Showers of miscellaneous matter
929.S6 Smoke influences
(929.S7) Snow. Ice. Blizzards

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

Cf. QC880+ Dynamic meteorology
Cf. TA654.5 Wind loads on structures
Cf. TL557.A5 Aeronautical meteorology
Cf. VK543+ Sailing
930.6 Periodicals, societies, congresses, serial publications
930.7 Collected works (nonserial)
931 Dictionaries and encyclopedias
931.4 General works, treatises, and textbooks
931.4 Juvenile works
931.6 Addresses, essays, lectures
931.8 Charts, diagrams, maps, etc.
932 Instruments and apparatus
932.5 Handbooks, tables, formulas, etc.
933 Direction and velocity
934 Wind relation to atmospheric pressure
934.2 Wind in relation to atmospheric temperature. Wind chill
935 Upper currents. Jet stream
939.A-Z Constant, local, and periodic winds, A-Z
939.B67 Bora
939.C76 Crosswinds
939.F6 Föhn, Chinook, etc.
939.G73 Gregale
939.K37 Katabatic winds
Meteorology. Climatology

Wind

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

939.L37  Land and sea breezes
939.M7   Monsoons
939.M8   Mountain and valley winds
         Including Santa Ana
939.N8   Norther
939.T7   Trade winds

Observations

940.A1  General works, treatises, and textbooks
940.A2-Z By region or country, A-Z
         e.g.
940.A8   North Atlantic Ocean

Storms. Cyclones

Cf. GC225+ Storm surges
Cf. HV635.5+ Disaster relief and socioeconomic consequences
Cf. QC926.3+ Snow. Ice. Blizzards
Cf. QC968+ Thunderstorms
Cf. TL557.S7 Aeronautical meteorology

940.6   Periodicals, societies, congresses, serial publications
941     General works, treatises, and textbooks
941.3   Juvenile works
941.8   Miscellany and curiosa

Theoretical 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

955     Tornadoes
955.2    General works
955.5.A-Z Juvenile works
         By region or country, A-Z
957     Waterspouts
         Dust storms. Dust devils. Sandstorms
958     General works
959.A-Z  By region or country, A-Z

Electrical phenomena in the atmosphere

960.5   Periodicals, societies, congresses, serial publications
961     General works, treatises, and textbooks
961.2   Addresses, essays, lectures
961.5   Technique. Instructions for observers
Meteorology. Climatology
Electrical phenomena in the atmosphere -- Continued

962
Instruments and apparatus

963
Observations of potential variation

Lightning (General)
Cf. GR640 Folklore
Cf. TH9057+ Protection of buildings from lightning

966
General works

966.5
Juvenile works

966.7.A-Z
Special topics, A-Z
Arresters see TK3248

966.7A84
Atmospheric ionization

966.7.B3
Ball lightning

966.7.D5
Discharge. Flash

Thunderstorms (General)

968
General works

968.2
Juvenile works

969
Miscellaneous electrical phenomena

Auroras
Cf. QB524+ Solar activity
Cf. QC835 Magnetic disturbance
Cf. QC976.A3 Airglow

970
Periodicals, societies, congresses, serial publications

971
General works, treatises, and textbooks

971.3
Pictorial works and atlases

971.4
Juvenile works

971.5
Addresses, essays, lectures

Observations

971.7.A1
General works, treatises, and textbooks

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

972.A-Z
Special topics, A-Z

972.L8
Luminescence

972.L85
Luminosity

972.P4
Photography

972.S6
Spectra

972.5.A-Z
Special types of aurora, A-Z

972.5.A8
Australis

972.5.B6
Borealis
Northern lights see QC972.5.B6
Polaris see QC972.5.B6

972.5.R3
Radio auroras

Radio meteorology. Microwave meteorology

972.6
Periodicals, societies, congresses, serial publications

972.7
Collected works (nonserial)

973
General works, treatises, and textbooks

973.2
Addresses, essays, lectures

973.3
Instruments and apparatus

973.4.A-Z
Special topics, A-Z

973.4.A85
Atmospherics

973.4.C4
Chorus. Dawn chorus

973.4.I6
Ionospheric radio waves
Including absorption, propagation, etc.

973.4.M33
Magnetospheric radio waves
Radio auroras see QC972.5.R3

973.4.R3
Radio noise

973.4.R35
Radio refractivity
Meteorology. Climatology
   Radio meteorology. Microwave meteorology
      Special topics, A-Z -- Continued
         Sferics see QC973.4.A85
973.4.T76   Tropospheric radio waves
         Including absorption, propagation, etc.
973.4.V2    VLF emissions, propagation, etc.
973.4.W5    Whistlers
Radar meteorology
973.45      Periodicals, societies, congresses, serial publications
973.5       General works, treatises, and textbooks
973.6       Addresses, essays, lectures
         Radar stations
973.62.A1   General works
973.62.A2-Z  By region or country, A-Z
973.7       Instruments and apparatus
         Including rawinsondes
973.8.A-Z   Special topics, A-Z
         Echoes
973.8.E3    Refraction
973.8.R4    Weather radar networks
973.8.W4
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
976.H15     Gegenschein see QB761
976.L36     Halos
976.M6      Laser beam propagation
976.M66     Mirages
976.N5      Moonbows
976.N6      Night sky
976.N7      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
Meteorology. Climatology

Meteorological optics

Special topics, A-Z -- Continued

Visibility

Cf. TL557.V5 Aeronautical meteorology

Climatology and weather

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

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

Periodicals, societies, congresses, serial publications

Collected works (nonserial)

Dictionaries and encyclopedias see QC854

Classification of climate

Including indexes

Biography see QC858.A2+

General works, treatises, and textbooks

Popular works

Juvenile works

Addresses, essays, lectures

Special aspects of the subject as a whole

Study and teaching. Research

Instruments and apparatus

Including frigorimeters

Special types of climatology, A-Z

Cryptoclimatology

Dynamic climatology

Macroclimatology

Mesoclimatology

Microclimatology

Paleoclimatology see QC884+

Synoptic climatology

Topoclimatology

Urban climatology

Special topics, A-Z

Air masses in weather situations

Including cold and heat waves, etc.

Climatic changes

see QC902.8+

Climatic extremes

Cold waves see QC981.8.A5

Continentality

Droughts see QC929.2+

Forest influences see SD425

Glaciers and climate see QC981.8.I23

Global warming

Heat waves see QC981.8.A5

Ice sheets and climate. Glaciers and climate
Meteorology. Climatology
Climatology and weather
Special topics, A-Z -- Continued
981.8.S9
Sultriness
981.8.V65
Volcano effect on weather
981.8.Z6
Zones of climate
Geographic divisions
Including observations, weather reports, charts, etc., of special regions
International observations
982
General works
982.5.A-Z
International areas not wholly within the divisions below. By name, A-Z
982.5.C64
Columbia River Watershed
982.5.D48
Developing countries
982.5.G7
Great Britain's colonies
982.5.G75
Great Lakes Region
982.5.N67
Northern Hemisphere
982.5.S68
Southern Hemisphere
982.8
North America (General)
United States
983
General works
984.A-Z
By region or state, A-Z
Subarrange each state by Table Q4
Canada
985
General works
985.5.A-Z
By region or province, A-Z
Subarrange each province by Table Q4
Mexico and Central America
986.A1
General works
986.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
West Indies
987.A1
General works
987.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
South America
988.A1
General works
988.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Europe
989.A1
General works
989.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Asia
990.A1
General works
990.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Africa
991.A1
General works
991.A3-Z
By country, island, or region, A-Z
Subarrange each country or island by Table Q4
Australia
992.A1
General works
992.A3-Z
Local, A-Z
New Zealand
992.5.A1
General works
992.5.A3-Z
Local, A-Z
Meteorology. Climatology
Climatology and weather
Geographic divisions -- Continued

993.A-Z
Pacific and other oceanic islands. By island or group of islands, A-Z

993.5
Tropics (General). Tropical climatology and meteorology

993.6
Mountains (General). Mountain climatology and meteorology

993.7
Arid regions. Deserts (General). Arid zone climatology
Temperate zones. Temperate climate
For works on temperate climate in specific geographic regions, see QC982-QC994.9, Land; QC994.1-QC994.9, Oceans

993.75
General works

993.8
Mediterranean climate (General)
Class here works on Mediterranean climate regions in general. For works on Mediterranean climate in specific geographic regions, see QC982-QC993; QC994.3

Ocean areas. Maritime meteorology
Cf. GC190+ Ocean-atmosphere interaction
Cf. VK570 Ship routing

993.83
Periodicals, societies, congresses, serial publications

993.84
Observers' manuals. Handbooks, tables, formulas, etc.
Weather services see QC875.A2+

994
General works, treatises, and textbooks
By region

994.1
Atlantic Ocean (General)
994.2
Atlantic, North
994.3
Mediterranean Sea
994.4
Atlantic, South
994.5
Indian Ocean
994.55
Pacific Ocean (General)
994.6
Pacific, North
994.7
Pacific, South
Polar climatology and meteorology

994.75
General works

994.8
Arctic
994.9
Antarctic

Weather forecasting
Including analyses and forecasts
Cf. QC875.A2+ Weather services
Cf. QC877.5 Weather broadcasting

994.95
Periodicals, societies, congresses, serial publications

995
General works, treatises, and textbooks

995.3
Pictorial works and atlases

995.4
Popular works

995.43
Juvenile works

995.45
Addresses, essays, lectures

995.46
Study and teaching. Research Technique (General)
Including graphical technique

995.48
General works

995.485
Observers' manuals

Types of weather forecasting

995.5
Hydrodynamic

996
Numerical

996.5
Statistical

997
Long-range

997.5
Short-range

997.75
Nowcasting
Meteorology. Climatology
Climatology and weather
Weather forecasting -- Continued

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
11 History
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 Elixer of life
    Philosopher's stone see QD25
27 Early works through 1761
General works, treatises, and advanced textbooks
General works, treatises, and advanced textbooks -- Continued

28  1761-1860
31  1861-1969
31.2  1970-2000
31.3  2001-

Elementary textbooks

33  To 2000
33.2  2001-

35  Juvenile works
37  Popular works
38  Recreations, home experiments, etc.
39  Addresses, essays, lectures
39.2  Special aspects of the subject as a whole
39.3.A-Z  Special topics, A-Z
39.3.C6  Computer programs
39.3.E4  Electromechanical analogies
39.3.E46  Electronic data processing. Cheminformatics
            Cf. RS418 Pharmaceutical chemistry
39.3.F33  Factor analysis
39.3.G73  Graph theory
39.3.M3  Mathematics
39.3.P45  Phlogiston
39.3.S55  Simulated annealing
39.3.S67  Spreadsheets
39.3.S7  Statistical methods
39.3.W37  Water
39.5  Chemistry as a profession. Vocational guidance
39.7  Social aspects

Study and teaching. Research

40  General works
41  Outlines, syllabi
42  Problems, exercises, examinations
            For programmed textbooks see QD28+
43  Experiments
            Cf. QD38 Home experiments
45  Laboratory manuals

By region or country
   United States
   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
   General works
49.6.A-Z  Special methods, A-Z
49.6.P76  Process oriented guided inquiry learning

Laboratories

51  General works
51.5.A-Z  By region or country, A-Z
            Subarrange each country by Table Q6
53  General works
54.A-Z  Special, A-Z
54.A3  Absorption apparatus
54.C4  Centrifuges
Laboratories
  Instruments and apparatus
    Special, A-Z -- Continued
  54.E8
    Eudiometer
  54.F85
    Fume hoods
  54.L33
    Labs on a chip
  54.P5
    Pipettes
  54.S8
    Sulfuric acid concentrator
  54.T4
    Thermostat

Techniques and operations
  61
    General works
  63.A-Z
    Special, A-Z
      Cf. QD258+ Operations in organic chemistry
  63.D5
    Dissolution
  63.D6
    Distillation
      Electric furnace operations (Inorganic chemistry) see QD157
      Electric furnace operations (Organic chemistry) see QD277
  63.E83
    Exchange reactions
  63.E88
    Extraction
  63.F5
    Filtration
  63.G5
    Glass manipulation
  63.H87
    Hydration
  63.H9
    Hydrogenation
  63.I55
    Ion exchange
  63.L3
    Laser techniques
  63.M3
    Masking
  63.N5
    Nitration
  63.O9
    Oxidation
  63.P4
    Percolation
  63.R4
    Reduction
  63.S4
    Separation
  63.V33
    Vacuum techniques
  63.5
    Safety measures
  64
    Waste disposal
  65
    Handbooks, tables, formulas, etc.
    Catalogs, pricelists, etc. see TP202

Analytical chemistry
  For the analysis of special elements and their compounds see QD181.A+
  For the analysis of organic compounds see QD271+
    Cf. QE516.3 Analytical geochemistry

71
  Periodicals, societies, congresses, serial publications
  71.2
    Collected works (nonserial)
  71.5
    Dictionaries and encyclopedias
  71.8
    Nomenclature, terminology, notation, abbreviations

History
  72
    General works
  72.5.A-Z
    By region or country, A-Z
    General works, treatises, and textbooks
  75
    Through 1970
    75.2
      1971-2000
    75.22
      2001-
    75.25
      Addresses, essays, lectures
  75.3
    Special aspects of the subject as a whole
  75.4.A-Z
    Special topics, A-Z
  75.4.A8
    Automation
  75.4.C34
    Calibration
Analytical chemistry
Special topics, A-Z -- Continued
75.4.C45 Chemometrics
75.4.E4 Electronic data processing
Forensic chemistry see RA1057
75.4.K54 Kinetics
(75.4.M36) see QD75.4.C45
(75.4.M4) Measurement
see QD75.4.C45
Preparation of samples see QD75.4.S24
75.4.Q34 Quality control
Sample introduction see QD75.4.S24
75.4.S24 Sample preparation. Sample introduction
75.4.S25 Sampling
75.4.S73 Stable isotopes
(75.4.S8) Statistical methods
see QD75.4.C45
75.4.U48 Ultrasonic waves
Study and teaching. Research
75.7 General works
75.9 Problems, exercises, examinations
76 Laboratory manuals
77 Reagents, indicators, test papers, etc.
78 Handbooks, tables, formulas, etc.
79.A-Z Methods of analysis (Qualitative and quantitative), A-Z
Chemical microscopy see QH221
Chromatographic analysis
79.C4 General works
79.C45 Gas chromatography
79.C453 Ion exchange chromatography
79.C4537 Ligand exchange chromatography
79.C454 Liquid chromatography
79.C46 Paper chromatography
79.C52 Preparative layer chromatography
79.C75 Radiochromatography
79.C8 Thin layer chromatography
79.E4 Electron diffraction
79.E44 Electrophoresis
79.F4 Fluorimetry
79.I5 Instrumental analysis
79.M5 Microchemical analysis
Molecular emission cavity analysis see QD79.P4
79.O8 Oximetry
79.P4 Phosphorimetry. Molecular emission cavity analysis
79.P46 Photometry
Radiochemical analysis see QD605+
79.S4 Sedimentation analysis
Spectrum analysis see QD95+
79.T38 Thermal analysis
79.T4 Thermogravimetry
Qualitative analysis
81 General works, treatises, and advanced textbooks
83 Elementary textbooks
84 Laboratory manuals
85 Tables, outlines, etc.
Analytical chemistry
Qualitative analysis -- Continued

87
Blowpipe analysis
Cf. QE367+ Determinative mineralogy
Spectrum analysis (Qualitative and quantitative)
Class here works on the applications of spectroscopy in general analytical chemistry and theoretical works intended primarily for chemists.
For general works on the theory of spectroscopy and works intended primarily for physicists see QC450+
For compilations of spectra of elements, groups of elements, organic and inorganic compounds see QC462+
For works on the applications of spectroscopy in organic analytical chemistry see QD272.S6
Cf. CC79.S65 Spectrum analysis in archaeology

95
General works
95.5.A-Z Special topics, A-Z
95.5.D37 Data processing
95.5.S72 Statistical methods
96.A-Z Special methods and types of spectra, A-Z
96.A2 Absorption spectra
  Including cavity-ringdown spectroscopy
96.A7 Arc spectra
96.A8 Atomic spectra
Cavity-ringdown spectroscopy see QD96.A2
96.D48 Deuteron magnetic resonance spectroscopy
96.E4 Electron paramagnetic resonance spectroscopy
96.E44 Electron spectroscopy
96.E46 Emission spectroscopy
96.F5 Flame spectroscopy
96.F56 Fluorescence spectroscopy
96.F68 Fourier transform spectroscopy
  Cf. QD96.I5 Fourier transform infrared spectroscopy
  Cf. QD96.N8 Fourier transform nuclear magnetic resonance spectroscopy
96.I47 Inductively coupled plasma spectrometry
  Class here works on all types of spectrum analytical methods using inductively coupled plasmas
96.I5 Infrared spectroscopy
  Including Fourier transform infrared spectroscopy
96.I54 Ion cyclotron resonance spectroscopy
  Ion mobility spectroscopy see QD96.P62
96.L3 Laser spectroscopy
96.L85 Luminescence spectroscopy
96.M3 Mass spectroscopy
96.M33 Matrix isolation spectroscopy
96.M5 Microwave spectroscopy
96.M6 Mössbauer spectroscopy
96.M65 Molecular spectra
96.N8 Nuclear magnetic resonance spectroscopy
  Including Fourier transform nuclear magnetic resonance spectroscopy
96.N84 Nuclear quadrupole resonance spectroscopy
96.O6 Optoacoustic spectroscopy
96.P5 Photoelectron spectroscopy
96.P54 Photothermal spectroscopy
96.P62 Plasma spectroscopy
  Including ion mobility spectroscopy
  Cf. QD96.I47 Inductively coupled plasma spectrometry
96.P7 Proton magnetic resonance spectroscopy
Analytical chemistry

Qualitative analysis

Spectrum analysis (Qualitative and quantitative)
Special methods and types of spectra, A-Z -- Continued

96.R3 Radiofrequency spectroscopy
96.R34 Raman spectroscopy
96.R4 Reflectance spectroscopy
96.R44 Relaxation spectroscopy
96.S43 Secondary ion mass spectroscopy
96.U4 Ultraviolet spectroscopy
96.V53 Vibrational spectra
96.X2 X-ray spectroscopy
98.A-Z Other special methods, A-Z
98.C4 Chromatography
98.E4 Electron microprobe
98.K5 Kinetic analysis
98.M5 Microchemical analysis
98.S6 Spot tests

Quantitative analysis
General works, treatises, and textbooks

101 Through 1970
101.2 1971-
111 Volumetric analysis
113 Colorimetric analysis
115 Electrochemical analysis
115 General works
116.C65 Conductometric analysis
116.I57 Impedance spectroscopy
116.P64 Polarography
116.P68 Potentiometry
116.V64 Stripping voltammetry see QD116.V64
116.V64 Voltammetry
Including stripping voltammetry, anodic stripping voltammetry, etc.

117.A-Z Other special methods, A-Z
117.C5-.C52 Chromatography
117.C5 General works
117.C515 Gas chromatography
117.C517 Liquid chromatography
117.C52 Thin layer chromatography
117.E4 Electron diffraction
117.E42 Electron microprobe. Electron probe microanalysis
117.E45 Electrophoresis
117.F5 Fluorimetry
117.M5 Microchemical analysis. Microchemistry
117.P5 Photometry
117.R3 Radiometry. Radiation measurement
117.S64 Spectrophotometry
117.S64 Spectrum analysis see QD95+
117.T4 Thermal analysis

121 Gas analysis
Including air analysis
Cf. TP754 Analysis, tests, etc. in the gas industry

Technical analysis
130 Periodicals, societies, congresses, serial publications
Analytical chemistry
Technical analysis -- Continued

131
  General works, treatises, and textbooks
  Metals
132
  General works
  Assaying see TN550+
133
  Iron and steel alloys
  Alloys (General). Nonferrous alloys
135
  General works
137.A-Z
  Special metal alloys, A-Z
    For the analysis of metallic elements see QD181.A+
137.A6
  Aluminum alloys
137.A8
  Arsenic alloys
137.B3
  Babbitt metal
137.C5
  Chromium-iron-nickel alloys
137.C6
  Copper alloys
137.F35
  Ferrites (Magnetic materials)
137.F38
  Ferroboron
137.F4
  Ferrochromium
137.F44
  Ferroniobium
137.F48
  Ferrotungsten
137.G6
  Gold alloys
  Iron alloys (General) see QD133
137.M3
  Magnesium alloys
137.N5
  Nickel alloys
137.S5
  Silver alloys
  Steel alloys see QD133
137.U73
  Uranium alloys
137.Z5
  Zinc alloys
139.A-Z
  Other special, A-Z
    Air see QD121
    Air pollution see TD890
    Carbonated beverages see TP628+
    Cement see TP882.3
    Ceramics see TP810
139.C53
  Cigarette smoke
  Clay see TP811
  Distilled beverages see TP609
139.E4
  Electrolytes
  Fats, oils, and waxes see TP671
  Fermentation industries see TP511
  Food see TX545
  Gas see QD121
  Gas industry see TP754
139.G5
  Glass
  Materials (General) see QD130+
  Oils, fats, and waxes see TP671
  Oils (Petroleum) see TP691
  Plastics see TP1140
139.P6
  Polymers
139.S44
  Semiconductors
  Sewage see TD735
139.S5
  Silicon organic compounds
(139.T5)
  Textiles
    see TS1449
139.T7
  Trace elements
<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QD</td>
<td>CHEMISTRY</td>
</tr>
</tbody>
</table>

Analytical chemistry
- Technical analysis
- Other special, A-Z -- Continued
  - Water see QD142
  - Water supply see TD380+
  - Wine see TP548.5.A5

142 Water analysis
  - Cf. TD380+ Water supply

Inorganic chemistry
- Cf. QD475 Physical inorganic chemistry
- Cf. QE351+ Mineralogy

146 Periodicals, societies, congresses, serial publications

147 Collected works (nonserial)

148 Dictionaries and encyclopedias

149 Nomenclature, terminology, notation, abbreviations
  - History
    - General works
    - 149.5 By region or country, A-Z

150 Early works through 1800
  - General works, treatises, and advanced textbooks
    - 151 1801-1969
    - 151.2 1970-2000
    - 151.3 2001-
    - 151.5 Elementary textbooks

152 Addresses, essays, lectures

152.3 Special aspects of the subject as a whole

152.5.A-Z Special topics, A-Z

152.5.D46 Density functionals

152.5.M38 Mathematics
  - Reaction mechanisms see QD502.5

153 Study and teaching. Research
  - 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)

161 Nonmetals
  - General works

162 Gases

163 Chemistry of the air
  - Cf. TD881+ Air pollution

165 Halogens: Bromine, chlorine, fluorine, iodine

167 Inorganic acids
  - Cf. QD477 General theory of acids and bases

169.A-Z Other, A-Z

169.C5 Chalcogenides
  - Heavy water see QD169.W3

169.W3 Water
  - Cf. GB855+ Natural water chemistry

Metals
  - Cf. TN600+ Metallurgy

171 General works, treatises, and textbooks

172.A-Z By group, A-Z
Inorganic chemistry

Metals

By group, A-Z -- Continued

172.A3 Actinide elements
172.A4 Alkali metals
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

Including MXenes

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
Organic chemistry
   Special topics, A-Z -- Continued
255.5.R33
   Radiation effects
   Reaction mechanisms see QD502.5
Study and teaching. Research
256
   General works
256.5
   Outlines, syllabi
257
   Problems, exercises, examinations
257.5
   Experiments
257.7
   Handbooks, tables, formulas, etc.
Operations in organic chemistry
258
   General works
261
   Laboratory manuals
262
   Organic synthesis
      Including general works on combinatorial chemistry
      For works on pharmaceutical aspects of combinatorial chemistry see RS419
Organic analysis
   Class here general works on the analysis of organic compounds
   For the analysis of specific organic compounds or groups of compounds, see QD301
   For works on the analysis of both organic and inorganic compounds see QD71+
271.A1
   Periodicals, societies, congresses, serial publications
271.A2-Z
   General works, treatises, and textbooks
      Reagents, indicators, test papers, etc.
271.3
   General works
271.35.A-Z
   Special topics, A-Z
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
   Spectrum analysis
      Works on the application of spectroscopy in general or inorganic analytical chemistry are
classed in QD95
      For compilations of spectra see QC462+
272.T45
   Thermal analysis
272.V6
   Volumetric analysis
273
   Electrochemistry of organic compounds
      Cf. QP517.B53 Bioelectrochemistry
275
   Organic photochemistry
      Cf. QP517.P45 Photobiochemistry
277
   Electric furnace operations
281.A-Z
   Other special, A-Z
Organic chemistry
Operations in organic chemistry
Other special, A-Z -- Continued

281.A2
Acylation

281.A5
Alkylation

281.A6
Amination

281.A63
Ammonolysis

281.B7
Bromination

281.C3
Catalysis

281.C5
Chlorination

281.C7
Condensation

Cyclization see QD281.R5

281.D4
Dehydrogenation

281.D47
Dialysis

281.D5
Distillation

281.E4
Elimination reactions

281.F5
Flotation

281.F55
Fluorination

281.F7
Fragmentation reactions

281.H3
Halogenation

281.H78
Hydroboration

281.H79
Hydroformylation

281.H8
Hydrogenation

281.H83
Hydrolysis

281.H84
Hydrosilylation

281.H85
Hydroxylation

281.I7
Isotopic exchange reactions

281.M48
Methylation

281.N5
Nitration

281.O9
Oxidation

281.O95
Ozonolysis. Ozonization

281.P46
Phosphorylation

281.P6
Polymerization. Telomerization

281.P9
Pyrolysis

281.Q5
Quinoidation

281.R35
Rearrangement reactions. Rearrangements

281.R4
Reduction

281.R5
Ring formation

Including ring breaking, enlargement, and closure, and ring-opening polymerization

281.S5
Silylation

281.S6
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
Organic chemistry
  Aliphatic compounds
    Special groups, A-Z -- Continued
  305.A7
    Amides and hydrazides
      Cf. QD315 Urea
    Amino acids see QD431+
  305.A8
    Amino compounds
  305.A9
    Azo, hydrazo, and diazo compounds
  305.C3
    Carbanions and carbonium ions, free radicals, ylides
  305.E7
    Ethers and oxides
  305.F2
    Fats and fatty oils
      Cf. QP751+ Animal biochemistry
      Cf. TP669+ Chemical technology
    Free radicals see QD305.C3
    Glycols see QD305.A4
  305.H15
    Halogen compounds
    Hydrocarbons
    General works
    305.H5
      Alkanes (Paraffins)
      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
    Periodicals, societies, congresses, serial publications
  320
    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
    Periodicals, societies, congresses, serial publications
### Organic chemistry

**Aromatic compounds -- Continued**

- **331** General works, treatises, and textbooks
- **335** Special aspects of the subject as a whole
- **341.A-Z** Special groups, A-Z
- **341.A2** Acids and esters
- **341.A4** Alcohols
- **341.A6** Aldehydes and other carbonyl compounds
  - For ketones see QD341.K2
- **341.A7** Amides and hydrazides
- **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** Pimaricin
- **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
Organic chemistry
Polymers. Macromolecules -- Continued

381.3
Juvenile works
381.7
Addresses, essays, lectures
381.8
Special aspects of the subject as a whole
381.9.A-Z
Special topics, A-Z
381.9.A25
Acoustic properties
381.9.C64
Conformational analysis
381.9.D47
Deterioration
381.9.E38
Electric properties
381.9.E4
Electronic data processing
Fractionation see QD381.9.S44
381.9.M3
Mathematical models
381.9.M64
Molecular weights
381.9.O66
Optical properties
381.9.P45
Permeability
381.9.P56
Photochemistry
381.9.R3
Radiation effects
381.9.R43
Reduced gravity effects
381.9.R48
Rheology
Ring-opening polymerization see QD281.R5
381.9.S44
Separation. Fractionation
381.9.S65
Solubility and solutions
381.9.S87
Structure
381.9.S97
Surfaces and interfaces
381.9.T54
Thermal properties
382.A-Z
Special types, A-Z
382.A47
Amphiphiles
382.B47
Biomimetic polymers
382.B5
Block copolymers
382.B73
Branched polymers
Including star-branched polymers and hyper-branched polymers
382.C66
Conducting polymers. Conjugated polymers
382.C665
Conjugated oligomers
Including oligothiophenes
Conjugated polymers see QD382.C66
382.C67
Coordination polymers
382.C67
Crosslinked polymers see QD382.P67
382.C78
Crystalline polymers
382.E48
Emulsion polymers
382.F55
Fluorescent polymers
382.G7
Graft copolymers
382.H4
Heat resistant polymers
382.H48
Heterochain polymers
Hyper-branched polymers see QD382.B73
382.I43
Imprinted polymers
382.I45
Ionomers
Metallofoldamers see QD382.O43
382.O43
Oligomers
Including metallofoldamers
382.P45
Photochromic polymers see QD382.P45
382.P64
Photopolymers. Photochromic polymers
Polyelectrolytes
Including polyampholytes
Polymer colloids see QD549.2.P64
Polymer liquid crystals see QD923
Organic chemistry
Polymers. Macromolecules
Special types, A-Z -- Continued
382.P67 Polymer networks. Crosslinked polymers
382.R43 Reactive polymers
382.S4 Semiconductors
Star-branched polymers see QD382.B73
382.T44 Telechelic polymers
382.T46 Thermoresponsive polymers
382.W3 Water-soluble polymers
383.A-Z Special substances, A-Z
383.A27 Acrylic polymers
383.A55 Amine polymers
383.A95 Azo polymers
383.B67 Boron organic polymers
383.E66 Epoxy polymers
383.F48 Fluoropolymers
383.F84 Fullerene polymers
383.G57 Glutamic acid polymers
Methacrylate polymers see QD383.A27
383.S54 Silicon polymers
383.V56 Vinyl polymers
385 Laboratory manuals
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 (nitrogen)
403 Cyclic compounds containing S (sulfur)
405 Cyclic compounds containing O (oxygen)
406 Cyclic compounds containing P (phosphorus)
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)
Organic chemistry
Organometallic chemistry and compounds -- Continued

412.5
Handbooks, tables, formulas, etc.

Biochemistry
Class here works on chemical aspects of biological materials
Cf. QD476.2 Physical biochemistry
Cf. QH345 General biochemistry of plants and animals
Cf. QR861+ Plant biochemistry
Cf. QR501+ 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.
Organic chemistry

Biochemistry -- Continued

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

431.41
Periodicals, societies, congresses, serial publications

431.43-Z
General works, treatises, and textbooks

431.42
Addresses, essays, lectures

431.425.A-Z
Special topics, A-Z

431.425.A53
Analysis

431.425.D47
Derivatives

431.425.S85
Structure

431.425.S93
Synthesis

431.43
Problems, exercises, examinations

431.45
Laboratory manuals

431.47
Handbooks, tables, formulas, etc.

Nucleic acids

433.41
Periodicals, societies, congresses, serial publications

433.43-Z
General works, treatises, and textbooks

433.45-A-Z
Special topics, A-Z

433.45.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
Physical and theoretical chemistry
  Study and teaching. Research -- Continued
  455.7  Outlines, syllabi
  456  Problems, exercises, examinations
  457  Laboratory manuals
  457.2  Computer-assisted instruction
  458  Handbooks, tables, formulas, etc.
  461  Atomic and molecular theory and structure. Laws of chemical combination and chemical
       bonds. Molecular dimensions
       Cf. QD469 Valence
  461.5  Excited state chemistry
         Quantum chemistry
  462.A1  Periodicals, societies, congresses, serial publications
  462.A3-Z  General works, treatises, and textbooks
  462.5  Addresses, essays, lectures
  462.6.A-Z  Special topics, A-Z
  462.6.D38  Data processing
  462.6.D45  Density functionals
  462.6.D46  Density matrices
  462.6.E53  Energy levels
  462.6.M36  Many-body methods
  462.6.M39  Mathematics
  462.6.M66  Monte Carlo method
  462.6.P68  Potential energy surfaces
  462.6.R42  Relativistic effects
  462.6.R44  Relaxation phenomena
  462.6.S25  Scaling
  462.6.S94  Symmetry groups
  462.7  Problems, exercises, examinations
  462.9  Handbooks, tables, formulas, etc.

Atomic and molecular weights
  463  General works, treatises, and textbooks
          (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
Physical and theoretical chemistry -- Continued

476  
Physical organic chemistry

476.2  
Physical biochemistry

477  
Acids and bases (General theory)

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

480  
Models of atoms, molecules, or chemical compounds

481  
Stereochemistry. Molecular rotation
   Cf. QP517.S83 Biochemistry
   Conditions and laws of chemical reactions

501  
General works
   Chemical kinetics and mechanisms
      General works

502  
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

506.A1  
Surface chemistry
   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

510  
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)

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
Physical and theoretical chemistry

Thermochemistry -- Continued

526
Fractional distillation
  Cf. QD63.D6 Special operations in chemistry
  Cf. QD281.D5 Operations in organic chemistry
  Cf. TP156.D5 Chemical engineering processes
  Cf. TP589+ Distilling industries

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

533
Vapor densities

535
Liquefaction of gases
  Cf. TP243 Manufacture of liquefied gases

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

538
Chemistry of high and low pressures
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
Physical and theoretical chemistry
Electrochemistry. Electrolysis
Special topics, A-Z -- Continued
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
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
Physical and theoretical chemistry
  Electrochemistry. Electrolysis
  Special groups of substances, A-Z -- Continued
  575.P67 Porous materials
  576.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
  578 Photoelectrochemistry
  581 Plasma chemistry
     Cf. TP156.P5 Industrial plasma chemistry
  591 Magnetoochemistry
     Cf. QD940 Magnetic properties of crystals
  Radiochemistry. Nuclear chemistry
     Cf. QC794.95+ Radioactivity, radioactive substances in nuclear physics
     Cf. TK9350 Nuclear engineering
     Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry
  601.A1 Periodicals, societies, congresses, serial publications
  601.A2 Collected works (nonserial)
     General works, treatises, and textbooks
  601.A4-Z Through 1970
  601.2 1971-2000
  601.3 2001-
  602 Addresses, essays, lectures
  602.4 Special aspects of the subject as a whole
  602.5.A-Z Special topics, A-Z
  602.5.E4 Electronic data processing
  603.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
  Study and teaching. Research
  604 General works
  604.3 Problems, exercises, examinations
  604.5 Experiments
  604.7 Laboratory manuals
  Radiochemical laboratories. Hot laboratories
     Cf. QC788+ Nuclear physics research laboratories and projects
  604.8 General works
  604.85.A-Z By region or country, A-Z
     Subarrange each country by Table Q6
  604.9 Handbooks, tables, formulas, etc.
  Radiochemical analysis
  605 General works
  606 Radioactivation analysis. Nuclear activation analysis
  607 Tracer techniques
     For applications in special fields, see the field, e.g. QH324.3 Biology
  608 Isotope dilution analysis
  Radiation chemistry
     Cf. QC474+ Radiation physics
     Cf. TA418.6 Radiation effects and tests of materials
     Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry
  625 Periodicals, societies, congresses, serial publications
  626 Collected works (nonserial)
     General works, treatises, and textbooks
  635 Through 1970
  636 1971-
  641 Addresses, essays, lectures
  642 Special aspects of the subject as a whole
  643.A-Z Special topics, A-Z
  643.C5 Chemical dosimetry
  643.P84 Pulse radiolysis
 Physical and theoretical chemistry
 Radiation chemistry -- Continued
 Study and teaching. Research

  646  General works
  646.3  Problems, exercises, examinations
  646.5  Experiments
  646.7  Laboratory manuals
  649  Handbooks, tables, formulas, etc.
  651.A-Z  Special substances. By name, A-Z
       651.A36  Actinide elements
       651.A4  Alcohol
       651.A45  Ammonia
       651.C37  Carbohydrates
       651.H93  Hydrocarbons
       651.M38  Mercapto compounds. Thiols
       651.M4  Methanol
       651.N5  Nitrous oxide
       651.P6  Polymers
                  Thiols see QD651.M38
       651.W3  Water
  655  Particular types of radiation and chemical reaction, e.g. x-rays (not A-Z)

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

  701  Periodicals, societies, congresses, serial publications
     General works, treatises, and textbooks
  708  Through 1970
           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)
Physical and theoretical chemistry -- Continued

801
Sonochemistry
Cf. TP156.A33 Industrial use of sounds and ultrasonics

850
Mechanical chemistry
Supramolecular chemistry
Cf. QD380+ Macromolecules

875
Periodicals, societies, congresses, serial publications
876
Dictionaries and encyclopedias
878
General works, treatises, and textbooks
880
Electrochemistry of supramolecular compounds
882
Supramolecular organometallic chemistry

Crystallography
Cf. QE372+ Descriptive mineralogy

901
Periodicals, societies, congresses, serial publications
901.2
Collected works (nonserial)
902
Dictionaries and encyclopedias
902.5
Nomenclature, terminology, notation, abbreviations

History

903
General works
903.3.A-Z
By region or country, A-Z

Biography of crystallographers
903.5
Collective
903.6.A-Z
Individual, A-Z
903.8
Directories
904
Early works through 1800
General works, treatises, and textbooks
905
1801-1969
905.2
1970-
906
Pictorial works and atlases
906.3
Juvenile works
906.5
Addresses, essays, lectures
906.6
Special aspects of the subject as a whole
906.7.A-Z
Special topics, A-Z
906.7.E37
Electron microscopy
906.7.E4
Electronic data processing
906.7.N83
Nuclear magnetic resonance spectroscopy

Statistical methods see QD919

Study and teaching. Research

907
General works
907.3
Problems, exercises, examinations
907.5
Laboratory manuals
907.7
Instruments and apparatus
908
Handbooks, tables, formulas, etc.

Geometrical and mathematical crystallography

911
General works
912
Fundamental systems
Including tetragonal, orthorhombic, monoclinic systems

913
Diagrams
915
Goniometric measurements
919
Statistical methods

Crystal structure and growth
Including crystal lattices, defects, and dislocations
For lattice dynamics see QC176.8.L3
Cf. QD548 Crystallization in solutions
Cf. QD549.2.C64 Colloidal crystals

921
General works
Crystallography
Crystal structure and growth -- Continued

923
Liquid crystals
Including polymer liquid crystals
Cf. QC173.4.L55 Physics
Cf. TP1180.P666 Chemical technology

924
Photonic crystals

925
Polycrystals

926
Quasicrystals
Cf. QC173.4.Q36 Physics

Physical properties of crystals
Cf. QC176+ Solids, solid state physics

931
General works

933
Mechanical properties
Including cohesion, elasticity, plasticity, cleavage, hardness

937
Thermal properties

939
Electric properties
Cf. QC595 Pyroelectricity
Cf. QC595.5 Piezoelectricity

940
Magnetic properties

941
Optical properties
Including isotropy, anisotropy, refractivity, reflectivity, crystal rotation
Cf. QC440+ Polarization

945
X-ray crystallography

947
Other physical properties (not A-Z)

951
Chemical crystallography
Including relationships between structure and bonding, isomorphism, polymorphism, pseudomorphism

999
Miscellany and curiosa
Geology
For economic geology and mineral resources see TN1+
Cf. QB603.G46 Planetary geology
Cf. QH343.4 Geobiology
Cf. TA703+ Engineering geology
Cf. UG465+ Military geology

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

History
11 General works
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Biography
21 Collective
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22.D25 Dana, James Dwight
22.L8 Lyell, Charles
22.S77 Steno, Nicolaus

Directories
23

25 Early works through 1800
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26.2 1970-2000
26.3 2001-

Elementary textbooks
28
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

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Paleobiology see QE719.8
Paleoceanography
Paleoceanography see QC884+
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
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Outlines, syllabi
Problems, exercises, examinations
Models, diagrams, etc.
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Subarrange each country by Table Q7
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   General works
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51.A2-Z
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   Subarrange each country by Table Q5
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   Dealers’ catalogs of specimens
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61
   Surveys (History, organization, etc.)
   Geographical divisions
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79.5
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Special, A-Z -- Continued

471.15.S2 Salt
471.15.S25 Sandstone
471.15.S5 Shale
471.15.S54 Siltstone
471.15.T5 Tillite
471.15.T64 Tonsite
471.15.T73 Travertine
471.15.T8 Turbidites
  Underclay see QE471.38

471.2 Sediments (Unconsolidated)
471.3 Clay
471.38 Underclay
472 Sedimentary structures
473 Paleopedology

Metamorphic rocks. Metamorphism

475.A2 General works, treatises, and textbooks
475.A3-Z Special, A-Z
475.A4 Amphibolite
475.E25 Eclogite
475.G55 Gneiss
475.G7 Granulite
475.J27 Jadeite
475.J3 Jasperoid
475.L57 Listwanite
475.M3 Marble
475.M45 Metabasite
475.M5 Migmatite
475.M95 Mylonite
475.P47 Phyllite
475.Q3 Quartzite
475.S3 Schist
475.S39 Schungite
475.S47 Serpentinite
475.S6 Soapstone
475.T33 Tactite
475.T43 Tectonite

495 Laterite
496 Saprolites
499 Miscellany and curiosa

Dynamic and structural geology

Physical and tectonic

500 Periodicals, societies, congresses, serial publications
500.5 History
501 General works, treatises, and textbooks
  Including physical history of the earth
501.2 Popular works
501.25 Juvenile works
501.3 Special aspects of the subject as a whole
501.4.A-Z Special topics, A-Z
  Isotope geology see QE501.4.N9
501.4.M38 Mathematics
501.4.M6 Mohole project
501.4.N9 Nuclear geology. Isotope geology
Dynamic and structural geology
Special topics, A-Z -- Continued

501.4.P3  Paleogeography
501.4.P35 Paleomagnetism
Paleoweathering see QE570
501.4.P6  Polar wandering
501.4.R45 Remote sensing
501.4.U6  Upper mantle project
505  Addresses, essays, lectures
505.5  Study and teaching. Research
506  Geological cosmogony
507  Deluge, etc.
508  Geological time. Age of the earth
     Including age determination, radioactive dating
Interior of the earth. Internal structure of the earth
509  General works
509.2  Core
509.3  Core-mantle boundary
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
     Mexico
515.19  General works
515.195.A-Z  By region or state, A-Z
515.2  Central America (Table Q3)
Dynamic and structural geology

Geochemistry

Geographical divisions
North America -- Continued

515.23 West Indies, Caribbean Area (Table Q3)
515.25 South America (Table Q3)
515.27 Atlantic Ocean islands (Table Q3)
                   Greenland see QE515.46.G73
515.28 Europe (Table Q3)
                   Greenland see QE515.46.G73
515.3 Asia (Table Q3)
515.33 Africa (Table Q3)
515.35 Indian Ocean islands (Table Q3)

Australasia
515.37 General works
                   Australia
515.38 General works
515.39.A-Z By state, territory, or region, A-Z
                   New Zealand
515.4 General works
515.42.A-Z By region, territory, or island, A-Z
515.43 Pacific islands (Table Q3)

Polar regions
515.45 General works
515.46 Arctic regions (Table Q3)
515.46.G73 Greenland
515.47 Antarctica (Table Q3)
515.49 Tropics
515.5.A-Z Special topics, A-Z
515.5.D37 Data processing
515.5.G43 Geochemical modeling
515.5.G45 Geochemical self-organization
515.5.K55 Kinetics
515.5.R45 Remote sensing
515.5.T46 Thermodynamics
516.A-Z Special elements and groups of elements, A-Z (Table Q1 modified)
516.A35 Alkali metals
516.C37 Carbon
                   Including carbon sequestration by natural causes
                   Cf. TD885.5.C3 Carbon sequestration technologies

516.H3 Halogens
516.M65 Metals
516.R15 Radioactive substances
516.R2 Rare earth metals
516.R23 Rare gases
516.T85 Trace elements
516.3 Analytical geochemistry
516.4 Environmental geochemistry
                   Nuclear geochemistry see QE501.4.N9
516.5 Organic geochemistry

Dynamic geology
517 Periodicals, societies, congresses, serial publications
517.5 General works, treatises, and textbooks

Volcanoes and earthquakes
521 General works, treatises, and textbooks
521.2 Popular works
Dynamic and structural geology
Volcanoes and earthquakes -- Continued

<table>
<thead>
<tr>
<th>521.3</th>
<th>Juvenile works</th>
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<tr>
<td></td>
<td>Volcanoes. Volcanism</td>
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<td></td>
<td>Including supervolcanoes</td>
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</table>

<table>
<thead>
<tr>
<th>521.5</th>
<th>Periodicals, societies, congresses, serial publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>522</td>
<td>General works, treatises, and textbooks</td>
</tr>
<tr>
<td></td>
<td>Including individually named groups</td>
</tr>
<tr>
<td></td>
<td>e.g.</td>
</tr>
<tr>
<td>523.C47</td>
<td>Chichon (Mexico)</td>
</tr>
<tr>
<td>523.C7</td>
<td>Colima (Mexico: Volcano)</td>
</tr>
<tr>
<td>523.E8</td>
<td>Etna, Mount (Italy)</td>
</tr>
<tr>
<td>523.E95</td>
<td>Eyjafjallajökull Volcano (Iceland)</td>
</tr>
<tr>
<td>523.F68</td>
<td>Fournaise, Piton de la (Réunion)</td>
</tr>
<tr>
<td>523.F8</td>
<td>Fuji, Mount (Japan)</td>
</tr>
<tr>
<td>523.K3</td>
<td>Katmai, Mount (Alaska)</td>
</tr>
<tr>
<td>523.K5</td>
<td>Kilauea Volcano (Hawaii)</td>
</tr>
<tr>
<td>523.K73</td>
<td>Krakatoa (Indonesia)</td>
</tr>
<tr>
<td>523.M47</td>
<td>Merapi Volcano (Java, Indonesia)</td>
</tr>
<tr>
<td>523.O57</td>
<td>Ontake Mountain (Japan)</td>
</tr>
<tr>
<td>523.P3</td>
<td>Pelée, Mount (Martinique)</td>
</tr>
<tr>
<td>523.P56</td>
<td>Pinatubo, Mount (Philippines)</td>
</tr>
<tr>
<td></td>
<td>Piton de la Fournaise (Réunion) see QE523.F68</td>
</tr>
<tr>
<td>523.P8</td>
<td>Popocatépetl (Mexico)</td>
</tr>
<tr>
<td>523.S23</td>
<td>Saint Helens, Mount (Wash.)</td>
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<tr>
<td>523.S27</td>
<td>Santorini Volcano (Greece)</td>
</tr>
<tr>
<td>523.S68</td>
<td>Soufrière (Guadeloupe)</td>
</tr>
<tr>
<td>523.V5</td>
<td>Vesuvius, Mount (Italy)</td>
</tr>
<tr>
<td></td>
<td>Western Hemisphere. America</td>
</tr>
<tr>
<td></td>
<td>Including Hawaii</td>
</tr>
</tbody>
</table>

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

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

| 527 | Eastern Hemisphere. Asia, Australasia |
| 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 |
Dynamic and structural geology
Volcanoes and earthquakes -- Continued
Earthquakes. Seismology
Cf. TC181 Earthquakes and hydraulic structures
Cf. TC542.5 Earthquakes and dams
Cf. TF539 Damage to railroads
Cf. TH1095 Earthquakes and building
531 Periodicals, societies, congresses, serial publications
    Including serial collections issued by individual observatories
533 Early works through 1800
General works, treatises, and textbooks
534 1801-1969
534.2 1970-2000
534.3 2001-
Special
Western Hemisphere. America
535 General works
535.2.A-Z By region or country, A-Z
Eastern Hemisphere. Europe, Africa
536 General works
536.2.A-Z By region or country, A-Z
Eastern Hemisphere. Asia, Australasia
537 General works
537.2.A-Z By region or country, A-Z
537.5 Pacific Area (General)
538 Antarctica
538.5 Seismic waves. Elastic waves
538.8 Earthquake prediction
539 Special aspects of the subject as a whole
539.2.A-Z Special topics, A-Z
539.2.A4 Aftershocks
539.2.D36 Data processing
539.2.E42 Elastic rebound theory
539.2.I46 Hazard analysis see QE539.2.S34
539.2.I5 Induced seismicity
539.2.I5 Intensity
539.2.M37 Mathematics
539.2.M5 Microseisms
539.2.P34 Paleoseismology
539.2.P4 Periodicity
539.2.R45 Remote sensing
539.2.S34 Safety measures. Hazard analysis
    For safety measures or hazard analysis in specific geographic regions, see QE535+
539.2.S37 Seismic event location
539.2.S4 Seismic models
539.2.S43 Seismic traveltime inversion
539.2.S56 Slow earthquakes
    Including slow slip events and low-frequency earthquakes.
539.2.S73 Statistical methods
Observatories. Seismic networks
540.A2 General works
540.A5-Z By region or country, A-Z
    Under each country:
    .x General works
    .x2A-.x2Z Individual observatories. By name, A-Z
Dynamic and structural geology
Volcanoes and earthquakes
Earthquakes. Seismology -- Continued
541
Instruments. Seismometry
Including tables, calculations, seismograms, etc.
(545)
Volcanic gases and vapors
see QE527.75
Coral islands and reefs. Atolls
Cf. GB461+ Geomorphology
565
General works
565.5.A-Z By region or country, A-Z
For individual coral reefs and islands see QE566.A+
566.A-Z Individual, A-Z
e.g.
566.F35 Fangataufa Atoll
566.G7 Great Barrier Reef (Qld.)
566.M87 Mururoa Atoll
570 Weathering
Including paleoweathering
Sedimentation
Including erosion and deposition
For sedimentary rocks and sedimentology see QE471+
571 General works
573 Cryopedology
Glacial erosion
Cf. GB581+ Glacial landforms
Cf. QE697+ Pleistocene
575 Periodicals, societies, congresses, serial publications
576 General works, treatises, and textbooks
578 Moraines, eskers, kames
579 Drift. Loess
581 Aqueous erosion
Cf. S622+ Agriculture
587 Evorsion
597 Aerial erosion
Earth movements. Mass movements
For descriptive works, disasters, etc., see DA+
598 Periodicals, societies, congresses, serial publications
598.2 General works, treatises, and textbooks
598.3 Juvenile works
598.5.A-Z By region or country, A-Z
Landslides. Rockslides
Including mudflows and mudslides
599.A1 Periodicals, societies, congresses, serial publications
599.A2 General works, treatises, and textbooks
599.A5-Z By region or country, A-Z
599.2 Landslide hazard analysis
For hazard analysis in specific geographic regions see QE599.A5+
Subsidences
600 Periodicals, societies, congresses, serial publications
600.2 General works, treatises, and textbooks
600.3.A-Z By region or country, A-Z
Structural geology
601 General works, treatises, and textbooks
601.2 Special aspects of the subject as a whole
601.3.A-Z Special topics, A-Z
Dynamic and structural geology

Structural geology

Special aspects, A-Z -- Continued

601.3.D37 Data processing
601.3.M38 Mathematics
601.3.S83 Stereographic projection
601.8 Problems, exercises, examinations
602 Stratification
604 Deformation
605 Joints and cleavages

Faults and folds

606 General works, treatises, and textbooks
606.3.A-Z Special topics, A-Z
606.3.A58 Anticlines
606.3.S96 Synclines
606.5.A-Z By region or country, A-Z

Geosynclines

607 General works, treatises, and textbooks
607.5.A-Z By region or country, A-Z

(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

625 Effects of plants, animals, and man in geology

Cf. QR103 Geomicrobiology

Geographical divisions

North America

626 General works
United States
627 General works
627.5.A-Z By region or state, A-Z
Canada
628 General works
628.5.A-Z By region, province, or territory, A-Z
Mexico
629 General works
629.5.A-Z By region or state, A-Z
Central America
630.A1 General works
630.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

West Indies. Caribbean Area
Dynamic and structural geology
Geographical divisions
North America
631.A1
631.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
West Indies. Caribbean Area -- Continued
631.3-A1
631.3-A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
South America
632.A1
632.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
Europe
633.A1
633.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
Asia
634.A1
634.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
Africa
635.A1
635.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
Australia
636
636.5.A-Z
By region, state, or territory, A-Z
General works
New Zealand
637
637.5.A-Z
By region or statistical area, A-Z
General works
Pacific islands
638.A1
638.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
Arctic regions
639.A1
639.A3-Z
By region, country, or island, A-Z
General works
Offshore islands generally class with adjacent mainland
Antarctica
639.5.A1
639.5.A3-Z
By region, country, or island, A-Z
General works
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
General works
652.55.A-Z
By region or country, A-Z
Precambrian
653
General works
Stratigraphy

Precambrian -- Continued

653.3 Archaean
653.5 Proterozoic

Paleozoic

654 General works
(655) Algonkian. Huronian. Precambrian in general
   see QE653

656 Cambrian
660 Ordovician

Silurian

661 General works
(662) Lower (Ordovician)
   see QE660
(663) Upper (Silurian)
   see QE661

665 Devonian

Carboniferous

671 General works
672 Mississippian
673 Pennsylvanian
   Cf. TN799.9+ Coal

673.5 Permo-Carboniferous
674 Permian

Mesozoic

675 General works
676 Triassic
677 Lower
678 Middle
679 Upper

Jurassic

681 General works
682 Lower
683 Middle
684 Upper

Cretaceous

685 General works
686 Lower
687 Middle
688 Upper
689 Cretaceous-Tertiary boundary

Cenozoic

690 General works
691 Tertiary
691.5 General works
692 Paleocene
692.2 Eocene
692.8 Eocene-Oligocene boundary
693 Oligocene

Neogene

693.5 General works
694 Miocene
695 Pliocene
Stratigraphy
   Cenozoic -- Continued
   695.5     Pliocene-Pleistocene boundary
             Quaternary
   696       General works
             Pleistocene. Glacial epoch
   697       General works
   698       Cause of the glacial epoch
   699       Holocene, Recent
             Geological climate see QE698
             Paleoclimatology see QC884+
Paleontology
   701       Periodicals, societies, congresses, serial publications
   702       Collected works (nonserial)
   703       Dictionaries and encyclopedias
             Communication of information
   704       General works
   704.2     Information services
   704.3     Computer network resources
             Including the Internet
History
   705.A1    General works
   705.A2-Z  By region or country, A-Z
Biography
   707.A2    Collective
             Including directories
   707.A3-Z  Individual, A-Z
             e.g.
   707.T4    Teilhard de Chardin, Pierre
   707.Z8    Zittel, K.A.
Early works
   709       Through 1790
   710       1791-1830
General works, treatises, and textbooks
       Including stratigraphic paleontology
   711       1831-1969
   711.2     1970-2000
   711.3     2001-
   713       Comprehensive systematic works
             Including both zoological and botanical works
   714       Pictorial works and atlases
   714.2     Paleoart
             Including paleontological illustration
   714.3     Popular works
   714.5     Juvenile works
   714.7     Paleontology as a profession. Vocational guidance
   715       Study and teaching
Museums. Exhibitions
       Class catalogs of special subjects with the subject, e.g. British Museum catalog of fossil fishes in
       QE851
   716.A1    General works
   716.A2-Z  By region or country, A-Z
             Subarrange each country by Table Q5
Paleontology -- Continued

718
Collection and preservation
   Class here general works on collection and preservation of fossils
   For works on collection by stratigraphic division see QE724+
   For works on collection by geographic division see QE743+
   For works on collection and preservation of individual fossils see QE767

Micropaleontology
   For fossil biomolecules see QP517.F66

719
General works
719.5
Prokaryotes. Bacteria
719.6
Protista
   Cf. QE771+ Protozoa
   Cf. QE955 Algae

719.8
Paleobiology
   Cf. QE721.2.E85 Evolutionary paleobiology

Paleoecology

720
General works
720.2.A-Z
   By region or country, A-Z
720.5
Ichnology. Trace fossils

721
Special aspects of the subject as a whole
721.2.A-Z
   Special topics, A-Z
721.2.D37
   Data processing
721.2.E85
   Evolutionary paleobiology
721.2.E87
   Evolutionary paleoecology
721.2.E97
   Extinction
721.2.F6
   Fossilization. Taphonomy
721.2.M63
   Models and modeling
721.2.P24
   Paleobiogeography
721.2.P26
   Paleontological excavations
      For geographical divisions see QE743+
721.2.P3
   Paleotemperatures
721.2.S7
   Statistical methods
   Taphonomy see QE721.2.F6
721.2.V3
   Variation

723
Addresses, essays, lectures

Stratigraphic divisions (General and zoological)
   Corresponding classes for stratigraphic geology in QE653+
   Precambrian
724
   General works
724.5
   Proterozoic

Paleozoic

725
   General works
726
   Cambrian
726.2
   Ordovician
727
   Silurian
728
   Devonian
   Carboniferous
5   General works
729.2
   Mississippian
729.3
   Pennsylvanian
730
   Permian

Mesozoic

731
   General works
732
   Triassic
733
   Jurassic
734
   Cretaceous
Paleontology
Stratigraphic divisions (General and zoological)

Mesozoic -- Continued

734.5 Cretaceous-Tertiary boundary

Cenozoic

735 General works

Tertiary

736 General works

Paleogene

736.5 General works

736.8 Paleocene

737 Eocene

738 Oligocene

Neogene

738.5 General works

739 Miocene

740 Pliocene

Quaternary

741 General works

741.2 Pleistocene

741.3 Holocene, Recent

742 Amber fauna and flora

Geographical divisions (General and zoological)

Prefer the stratigraphic divisions above to geographical divisions

743 General works

743.5 Ocean bottom

744 Arctic regions

North America

745 General works

United States

746 General works

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

Canada

748.A1 General works

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

Offshore islands generally class with adjacent mainland

Mexico

749.A1 General works

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

Offshore islands generally class with adjacent mainland

West Indies and Bermuda

750.A1 General works

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

Central America

751.A1 General works

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

Offshore islands generally class with adjacent mainland

South America

752.A1 General works

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

Offshore islands generally class with adjacent mainland

Europe

753 General works

754 Great Britain

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

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

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

Australia
758.A1 General works
758.A3-Z By region, state, or territory, A-Z
Offshore islands generally class with adjacent mainland

758.5 New Zealand
759.A-Z Pacific islands, A-Z
Arctic regions see QE744

760 Antarctica

Paleozoology
760.8 Periodicals, societies, congresses, serial publications
761 General works, treatises, and textbooks
763 Popular works
765 Juvenile works
766 Marine animals
767 Plankton
For stratigraphic divisions see QE724+
For geographical divisions see QE743+

Invertebrates
770 General works, treatises, and textbooks
Protozoa
771 General works, treatises, and textbooks
772 Foraminifera
773 Radiolaria
774.A-Z Other Protozoa, A-Z
(774.D5) Dinoflagellates
For stratigraphic divisions see QE724+
For geographical divisions see QE743+

774.F5 Flagellata. Mastigophora
774.P6 Polycystida
774.T5 Thecamoebae. Testacea
774.T55 Tintinnida

775 Porifera (Sponges)
Cnidaria
777 General works, treatises, and textbooks
778 Anthozoa (Corals)
779 Hydrozoa. Stromatoporoidea
For Graptolithina see QE840.5
780 Scyphozoa
Including Scyphomedusae and Conulata

780.5 Ctenophora
Echinodermata
781 General works, treatises, and textbooks
782 Crinozoa. Crinoidea
783.A-Z Other divisions, A-Z
783.A7 Asteroidea (True starfish)
783.B6 Blastoidae
783.C9 Cystoidea
Paleozoology
Invertebrates
Echinodermata
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(371)
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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

421
Hybridization. Hybrid zones

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

429.2.A-Z
Individual, A-Z

E.g.

Mendel see QH31.M45

429.5
Directories

General works, treatises, and textbooks

430
General works

431
Human genetics (General)

Cf. CS21.3 Genetic genealogy

Cf. HQ750+ Eugenics

Cf. RB155+ Medical genetics

432
Animal genetics (General)

Cf. QH408 Animal variation

Cf. SF105+ Animal breeding

(433)
Plant genetics (General)

see QK981

434
Microbial genetics (General)

Cf. QR73 Variation

436
Pictorial works and atlases

437
Popular works

437.5
Juvenile works

438
Addresses, essays, lectures

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

438.4.B55
Biochemical markers. Genetic markers

438.4.C45
Chemogenomics

Genetic markers see QH438.4.B55

438.4.M3
Mathematical models

438.4.M33
Mathematics

438.4.S73
Statistical methods

438.5
Heredity and environment. Nature and nurture

438.7
Social and moral aspects

Sociogenomics see QH457.5
Genetics -- Continued

439
Vocational guidance
Study and teaching. Research

440
General works

440.2
Outlines, syllabi

440.3
Problems, exercises, examinations

440.4
Experiments

440.5
Laboratory manuals

440.7
Laboratories

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

441
Technique

441.2
Data processing

441.5
Cytogenetics
Cf. QH600+ Chromosomes
Cf. QP620+ Nucleic acids

Molecular genetics. Genetic engineering
Cf. QK981.5 Plant genetics
Cf. RB155+ Medical genetics
Cf. TP248.6 Genetic engineering applications

442
General works

442.2
Cloning

442.3
Gene targeting

442.4
Gene libraries

442.6
Transgenic organisms. Transgenic animals

Recombination mechanisms

443
General works

444
Segregation. Assortment
Crossing over

445
General works
Linkage and genetic mapping

445.2
General works
Sex linkage

445.7
Mosaicism

Genes. Alleles. Genome
Cf. QP98 Blood groups

447
General works

447.2
Dominance and recessiveness

447.5
Conversion
Polymorphisms

447.6
General works

447.63.A-Z
Special polymorphisms, A-Z

447.63.F43
Fibrinogen polymorphisms

447.63.H45
Hemoglobin polymorphisms

447.63.S56
Single nucleotide polymorphisms

Lethal factors see QH463.5

447.8.A-Z
Individual genes and genetic elements, A-Z

447.8.A28
Actin genes

447.8.B46
Beta-glucuronidase genes

447.8.H65
Homeobox genes
Ir genes see QR184.4

447.8.O43
Olfactory receptor genes
Oncogenes see RC268.42

447.8.R47
Reporter genes

447.8.S45
Selfish genetic elements
Genetics
Recombination mechanisms -- Continued
Recombination in microorganisms
448
  General works
448.2
  Conjugation
448.3
  Transduction
448.4
  Transformation
448.5
  Genetic regulation. Gene expression
450
  General works
450.2
  Genetic code. Transcription
450.25
  RNA editing
450.26
  RNA interference
450.3
  Gene amplification
450.4
  Overexpression
450.5
  Translation. Assembly
450.6
  Post-translational modification of proteins
450.7
  Epistasis
451
  Cell fusion. Cell hybridization
452
  Cytoplasmic inheritance
452.2
  Microsatellites
Mobile genetic elements
  Cf. QH462.I48 Insertion elements, DNA
452.3
  General works
452.5
  Episomes
452.6
  Plasmids
  Cf. QR76.6 Bacterial plasmids
452.7
  Quantitative genetics
452.8
  In situ hybridization
453
  Developmental genetics
455
  Population genetics
  Cf. GN289+ Physical anthropology
  Cf. HB848+ Population (Economic theory)
456
  Ecological genetics
Endocrine genetics see QP187.5
Evolutionary genetics see QH390
Immunogenetics see QR184+
457
  Behavior genetics
  Cf. BF341+ Heredity of consciousness
  Cf. BF699+ Genetic psychology
457.5
  Sociogenomics
Mutations
  Cf. QH390 Mutation in evolution
460
  General works
461
  Genetic mutation. Polyploidy. Aneuploidy
Chromosomal mutation
462.A1
  General works, treatises, and textbooks
462.A2-Z
  By type, A-Z
462.B7
  Breakage
462.D4
  Deletion
462.D8
  Duplication
462.G46
  Gene fusion
462.I48
  Insertion elements, DNA
462.I5
  Inversion
462.N65
  Nondisjunction
462.T7
  Translocation
463
  Gene mutation
Genetics
Mutations
Gene mutation -- Continued
463.13.A-Z
By type, A-Z
463.13.I57
Insertional mutagenesis
463.2
Nonsense mutation
463.5
Lethal factors
464
Spontaneous mutation
Induced mutation, DNA damage
465.A1
General works, treatises, and textbooks
465.A2-Z
By agent, A-Z
465.C3
Caffeine
465.C5
Chemicals (General)
465.C6
Colchicine
465.D55
DNA, Polynucleotides
465.N4
Neutrons
465.O44
Oil shale extracts
Polynucleotides see QH465.D55
465.R3
Radiation (General)
465.U4
Ultraviolet rays
465.X2
X-rays
465.5
Site-specific mutagenesis
467
Genetic repair mechanisms
468
Antimutagens
470.A-Z
Experimental organisms, A-Z
Prefer classification by genetic aspect studied
470.A85
Aspergillus
470.C6
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
471.5
Juvenile works
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
492
499
General works
Evolutionary developmental biology
Regeneration
   Cf. QK640 Plant physiology
   Cf. QP90.2 Animal physiology
Life
   Cf. QK710+ Plants
   Cf. QP1+ Animals
501
504
505
506
507
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509
General works, treatises, and textbooks
Biochemistry see QH345
Biomagnetism
   Cf. QP82.2.M3 Physiological effects of magnetic fields
   Cf. QP345 Human magnetic fields
Biophysics
Molecular biology
   Cf. QP187.3.M64 Molecular endocrinology
Homeostasis see QP90.4
Information theory in biology
Biological control systems
Biological transport
   Cf. QH615 Osmosis
509.5
510
510.5
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513.5
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515
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518.5
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528.5
529
Bioelectronics
Bioenergetics
Bioacoustics
Growth
Biomineralization
Biomechanics
   Cf. QP303 Animal mechanics. Human mechanics
Fluid dynamics
Movement. Tropisms. Taxes
   Including attachment mechanisms
Photobiology
   Cf. QH641 Bioluminescence
   Cf. QP517.P45 Photobiocchemistry
Thermobiology
Electrophysiology
   Cf. QP341 Animals
   Cf. QP517.B53 Bioelectrochemistry
Respiration
Anaerobiosis
Nutrition
Metabolism
Dormancy
Cryptobiosis. Anhydrobiosis
Chronobiology. Periodicity. Biorhythms
   Cf. QP84.6 Physiology
Degeneration
Longevity
   Cf. QP85 Animals
Senescence. Aging
Life -- Continued

530
Death
Cf. QH671 Cell death
Cf. QP87 Animal death

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

531
Miscellany and curiosa

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

540
Periodicals, societies, congresses, serial publications
540.3
Collected works (nonserial)
540.4
Dictionaries and encyclopedias
540.5
Philosophy
540.6
Nomenclature, terminology, notation, abbreviations
540.7
Classification
History
540.8
General works
540.83.A-Z
By region or country, A-Z
Biography see QH26+
541
General works, treatises, and textbooks
541.13
Popular works
541.14
Juvenile works
541.142
Handbooks, tables, formulas, etc.
541.145
Addresses, essays, lectures
541.15.A-Z
Special aspects of the subject as a whole, A-Z
541.15.A9
Autoradiographic techniques
Biodiversity see QH541.15.B56
541.15.B4
Biological assay
541.15.B56
Biological diversity, Biodiversity
For local, see QH84.1+
For physiographic divisions see QH84.8+
Cf. QH75+ Biodiversity conservation
Cf. QH541.15.S64 Species diversity
Cf. QK46.5.D58 Plant diversity

541.15.B84
Buffer zones
541.15.C44
Chemical ecology
541.15.C55
Closed ecological systems
541.15.C67
Corridors
541.15.D6
Documentation
541.15.E19
Ecohydrology
541.15.E22
Ecological assessment (Biology)
541.15.E24
Ecological heterogeneity
541.15.E245
Ecological integrity
541.15.E248
Ecological zones
541.15.E25
Economic ecology
541.15.E26
Ecophysiology
Cf. QP82+ Animal ecophysiology
541.15.E265
Ecosystem health
Ecology
Special aspects of the subject as a whole, A-Z -- Continued

541.15.E267 Ecosystem services
541.15.E27 Ecotones
   Including land-water ecotones
541.15.E45 Electronic data processing
541.15.F66 Food chains. Food webs
541.15.F73 Fragmented landscapes
541.15.G46 Geographic information systems
541.15.H34 Habitat suitability index models
541.15.I5 Health, Ecosystem see QH541.15.E265
541.15.I5.185 Heterogeneity, Ecological see QH541.15.E245
541.15.I5.185 Integrety, Ecological see QH541.15.E245
541.15.I5.185 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
541.15.T68 Zones, Ecological see QH541.15.E248

Communication in ecology

541.18 General works
541.183 Information services
541.185 Computer network resources
   Including the Internet
541.187 Translating

Study and teaching. Research

541.2 General works
541.215 Outlines, syllabi

541.22 Special teaching methods and aids
541.23 Audiovisual aids
541.235.A-Z Other methods, A-Z
541.235.G34 Games
541.24 Experiments
541.25 Laboratory manuals
Ecology
Study and teaching. Research -- Continued
By region or country
United States
541.26
General works
541.262.A-Z
By region or state, A-Z
541.264.A-Z
Other regions or countries, A-Z
Ecological laboratories and stations
541.27
General works
541.273.A-Z
By region or country, A-Z
541.28
Technique
541.29
Applied ecology
Cf. QH541.15.M64 Monitoring
Cf. QH541.15.R45 Restoration ecology
541.3
Biological productivity
Cf. QK909.5 Vegetation productivity
541.5.A-Z
By type of environment, A-Z
For local see QH101+
Abyssal zone see QH541.5.D35
Antarctica see QH84.2
Aquatic see QH541.5.W3
Arctic regions see QH84.1
541.5.A74
Arid regions
541.5.B63
Bogs
Boreal forests see QH541.5.T3
Brackish waters see QH541.5.E8
Braided rivers see QH541.5.S7
541.5.C24
Canals
541.5.C3
Caves
Cerrados see QH541.5.P7
541.5.C5
Chaparral
541.5.C6
Cities. Urban ecology
541.5.C62
Cliffs
541.5.C63
Cloud forests
541.5.C65
Coasts
541.5.C7
Coral reefs and islands. Reefs
541.5.C73
Coulees
541.5.C95
Cypress swamps
541.5.D35
Deep-sea zone. Abyssal zone
Including hydrothermal vents
541.5.D4
Deserts
541.5.E8
Estuaries. Brackish waters
541.5.F56
Fjords
Floodplains see QH541.5.V3
541.5.F6
Forests
Including forest canopy ecology and old growth forest ecology
Cf. QH541.5.C63 Cloud forests
Cf. QH541.5.P47 Permafrost forests
Cf. QH541.5.R27 Rain forests
Cf. QH541.5.T3 Taigas. Boreal forests
Cf. QH541.5.T66 Tropical dry forests
Cf. SD416+ Forest influences
Cf. SD418+ Deforestation
541.5.F7
Freshwater
541.5.G37
Gardens
Grasslands see QH541.5.P7
Ecology
By type of environment, A-Z -- Continued

541.5.G76  Groundwater
541.5.H43  Heathlands
541.5.H65  Hot springs
   Cf. QH541.5.D35 Hydrothermal vents
   Cf. QR107 Microbial ecology
541.5.H67  Household ecology
   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
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
541.5.R4   Reefs see QH541.5.C7
541.5.R52  Reservoirs
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

541.5.T53 Tidal flats
   Tidal pools see QH541.5.S35
   Tide marshes see QH541.5.S24

541.5.T66 Tropical dry forests

541.5.T7 Tropics

541.5.T8 Tundras

541.5.U55 Underground ecology

541.5.U64 Uplands
   Cf. QH541.5.M65 Mountains

541.5.V27 Urban ecology see QH541.5.C6

541.5.V3 Vacant lots

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

541.5.X45 Xeric ecology
   Paleoeconomy
   see QE720

542.5 Geobiology see QH343.4

Biogeomorphology

Bioclimatology. Microclimatology
   Cf. QH545.T4 Temperature as a factor in ecology

543 General works

543.2 Acclimatization
   Cf. QK913 Plant acclimatization

543.3 Dispersal of organisms by environmental factors

Radioecology. Radiobiology
   Cf. QH328 Space radiobiology
   Cf. QH545.N8 Nuclear power plants, nuclear reactors
   Cf. QH545.N83 Nuclear warfare
   Cf. QH652+ Radiation effects on cells

543.5.A1 Periodicals. Congresses

543.5.A2 Collected works (nonserial)

543.5.A3-Z General works, treatises, and textbooks
   Aquatic radioecology

543.58 General works

543.6 Marine radioecology

543.8 Brackish water radioecology. Estuarine radioecology

543.9 Freshwater radioecology

543.95 Ultraviolet radiation

544 Phenology
Ecology -- Continued

Influence of special factors in the environment

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

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

545.A1
General works, treatises, and textbooks

545.A15-Z
Special, A-Z

Acid precipitation see QH545.A17

545.A17
Acid rain. Acid precipitation. Acid deposition

545.A2
Acids

545.A23
Actinide elements

545.A25
Agricultural chemicals

545.A3
Air pollution

545.A4
Aldrin

545.A42
All terrain bicycles. Mountain bikes

  Including all terrain cycling and mountain biking

545.A43
All terrain vehicles

545.A45
Ammonia

545.A77
Arsenic

Atomic warfare see QH545.N83

545.B45
Benzene

545.B47
Beryllium

545.B55
Biological pest control agents

545.B57
Bird declines

545.B6
Boron

Brines, Oil field see QH545.O47

545.C3
Cadmium

545.C34
Campfires

545.C35
Canals

545.C37
Carbon isotopes

545.C47
Chemical elements

545.C48
Chemical warfare. Chemical weapons

545.C5
Chloroform

545.C52
Cholecalciferol

545.C54
Chromium

545.C545
Cities and towns. Urban growth. Urban sprawl

545.C57
Coal-fired power plants

545.C59
Contaminated sediments

Control of weeds see QH545.W43

545.C6
Copper

545.C64
Coral fisheries

545.C78
Cruise ships

545.D35
Dams. Reservoirs

545.D4
Deicing chemicals

Desalination plants see QH545.S33

545.D486
Diazinon

545.D5
Dichloromethane

545.D55
Dioxins

  Cf. QH545.T44 Tetrachlorodibenzodioxin

545.D57
Diquat

545.D7
Dredging

545.D713
Dredging (Fisheries)
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
545.E53  Energy development see QH545.E53
545.E98  Exterior lighting
545.F47  Fertilizers
545.F5  Fire. Fire ecology
545.F52  Fish culture
545.F53  Fisheries
545.F55  Flood control
545.F67  Flood dams see QH545.D35
545.F67  Forest management
545.G37  Geothermal power plants
545.G55  Glyphosate
545.H34  Growth, Urban see QH545.C54
545.H42  Hang gliding
545.H47  Heavy metals
545.H49  Herbicides
545.H54  Hexazinone
545.H92  Hiking
545.H93  Hydrocarbons
545.H93  Including polycyclic aromatic hydrocarbons
545.L35  Hydroelectric power plants
545.L35  Insecticides see QH545.P4
545.M34  Lakeshore development
545.M38  Land reclamation see QH545.R38
545.L4  Metal
545.L63  Metals, Heavy see QH545.H42
545.M52  Marine pollution see QH545.W3
545.M3  Mercury
545.M45  Metals
545.M45  Metals, Heavy see QH545.H42
545.M52  Minerals
545.M6  Molybdenum
545.M86  Munitions
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.P38  Perfluorinated chemicals
545.P39  Persistent pollutants
545.P4  Pesticides
  Including insecticides
545.P5  Phosphorus
545.P6  Polychlorinated biphenyls
545.P73  Predator control
545.R38  Reclamation of land
545.R42  Recreation areas
545.R44  Reforestation
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
Ecology
Influence of special factors in the environment
Special, A-Z -- Continued

545.S498 Shore protection
545.S5 Shotgun pellets
545.S55 Silver
545.S56 Skiing
  Including snow grooming
545.S57 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.H3
545.W43 Weed control
545.W53 Wharves
545.X44 Xenobiotics
545.Z56 Zinc
546 Adaptation
  Including protective mechanisms, mimicry
  Cf. QK912+ Plant adaptation
  Cf. QH543.2 Acclimatization
546.3 Competition. Niche
547 Parasitism
  Symbiosis
548 General works
Ecology
Symbiosis -- Continued
548.3
Mutualism
549
Colonies
549.5
Animal-plant relationships
(555)
Degeneration
see QH528
(558)
Aging
see QH529
(559)
Death
see QH530
Cytology
Class here general and experimental works in cytology.
For works on the cytology of particular animals written to elucidate the total organism, see the
systematic divisions in QL
Cf. QH441.5 Cytogenetics
Cf. QK671 Plant cell anatomy
Cf. QK725 Plant cell physiology
573
Periodicals, societies, congresses, serial publications
574
Collected works (nonserial)
575
Dictionaries and encyclopedias
History
577
General works
578.A-Z
By region or country, A-Z
General works, treatises, and textbooks
581
Through 1969
581.2
1970-
581.5
Addresses, essays, lectures
582
Pictorial works and atlases
582.4
Popular works
582.5
Juvenile works
Study and teaching. Research
583
General works
583.15
Outlines, syllabi
583.2
Laboratory manuals
Technique
Cf. TP248.27.A53 Animal cell biotechnology
585
General works
Cell culture
585.2
General works
585.3
Serum-free culture media
Cell lines
585.4
General works
585.45
Continuous cell lines
585.457
Lymphoblastoid cell lines
585.5.A-Z
Special techniques, A-Z
585.5.C43
Cell fractionation
585.5.C44
Cell separation
585.5.C64
Colony-forming units assay
585.5.C98
Cytofluorometry
585.5.C984
Cytophotometry
585.5.D38
Data processing
585.5.E43
Electrodes, ion selective
585.5.E46
Electrophoresis
585.5.E48
Electroporation
585.5.F56
Flow cytometry
Cytology
Technique
   Special techniques, A-Z -- Continued
585.5.I45  Immobilization of cells
585.5.L37  Lasers
585.5.M52  Micropipette techniques
585.5.M53  Microspectrophotometry
585.5.N82  Nuclear magnetic resonance spectroscopy
   (585.5.S45)  Serum-free culture
               see QH585.3
585.5.S83  Subcellular fractionation

Cell populations
587  General works
588.A-Z  Individual types of cells, A-Z
588.A38  Adult stem cells
         Embryonic stem cells see QH588.S83
588.I63  Induced pluripotent stem cells
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  Cytoskeletal 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
Cytology

603.N83 Nuclear matrix
603.P47 Peroxisomes
603.R5 Ribosomes
603.S27 Sarcoplasmic reticulum

Control mechanisms. Cell regulation

Cf. QP187.3.C44 Endocrinology

604 General works
604.2 Cell interaction

Cf. QP517.C45 Cellular signal transduction

604.3 Cell compartmentation
604.5 Ion exchange
604.7 Cell growth. Cell proliferation

Cell division
605 General works
605.2 Mitosis
605.3 Meiosis

Cell differentiation
607 General works

Cf. QL963.5 Embryology

607.2.A-Z By type of cell, A-Z
607.2.C47 Chromatophores. Pigment cells

Pigment cells see QH607.2.C47

608 Aging of cells

Cf. QH671 Pathology and death

609 Cellular repair mechanisms

Physical and chemical properties

Cf. QH506 Molecular biology

611 General works
613 Histochemistry
615 Osmosis
621 Turgescence
622 Adsorption
623 Adhesion

Physiological properties

631 General works
633 Respiration
634 Ingestion. Pinocytosis, etc.
634.2 Exocytosis
634.5 Metabolism
635 Heat production. Energy
641 Light production. Bioluminescence

Cf. QP517.C54 Chemiluminescence

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

Effect of physical and chemical agents on cells

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

650 General works
651 Light

Cf. QH515 Photobiology
Cytology
Effect of physical and chemical agents on cells -- Continued

Radiation
For the effect of radiation on specific organs, organisms, etc., see the specific organ, etc., e.g.
QP356.5, Nervous system
Cf. QP82.2.R3 Radiation (Physiology)

652.A1 Periodicals, societies, congresses, serial publications
652.A2 Collected works (nonserial)
652.A3-Z General works, treatises, and textbooks
652.4 Ultraviolet radiation
(652.5) Radiogenetics
    see QH465.R3
652.7 Acoustic radiation
653 Temperature
655 Electricity
656 Magnetic fields
657 Gravity
658 Pressure
659 Chemicals
671 Pathology and death
    Cf. QH608 Aging of cells

Economic biology
Cf. S494.5.E25 Agriculture
Cf. SB107+ Economic botany
Cf. SF84+ Economic zoology

705 General works
705.5.A-Z By region or country, A-Z
Botany

1  Periodicals, societies, congresses, serial publications
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
        Botany for gardeners see QK50
46.5.D58  Diversity, Plant (General)
         Including centers of plant diversity
         For plant diversity conservation see QK86+
         For local see QK102+
46.5.E4  Electronic data processing
46.5.F67  Forensic botany
46.5.H85  Human-plant relationships
46.5.M3  Mathematical models
46.5.S7  Statistical methods
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

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

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
112  Illustrations of North American flora
   United States
      Including East (U.S.)
115  General works
   By region
      Northeast
117  General works
118  Popular handbooks
121  New England
121.5  Saint John River and Valley (Me. and N.B.)
      Atlantic States. Atlantic Coast
122  General works
122.3  Appalachian Mountains
122.5  Middle Atlantic States
122.8  Chesapeake Bay
122.85  Potomac River
122.9  South Atlantic States
      Southern States
124  General works
      Southeast
      Cf. QK122.9 South Atlantic States
125  General works
125.35  Blue Ridge Mountains
125.4  Great Smoky Mountains
125.8  Gulf States
128  Middle West
130  Great Lakes
      West (U.S.)
133  General works
134  Ozark Mountains
135  Great Plains
139  Rocky Mountains Region
Geographical distribution. Phytogeography
Topographical divisions
America
North America
United States
By region
West (U.S.) -- Continued
141
Great Basin
Southwest
142
General works
142.2
Chihuahuan Desert
142.3
Mojave Desert
142.4
Sonoran desert
Sierra Nevada
142.7
General works
142.75
Tahoe, Lake, Watershed (Calif. and Nev.)
143
Pacific coast
Northwest
General works
144
Columbia Basin
By state
145
Alabama
146
Alaska
147
Arizona
148
Arkansas
149
California
150
Colorado
151
Connecticut
152
Delaware
153
District of Columbia
154
Florida
155
Georgia
Hawaii see QK473.H4
156
Idaho
157
Illinois
159
Indiana
160
Iowa
161
Kansas
162
Kentucky
163
Louisiana
164
Maine
165
Maryland
166
Massachusetts
167
Michigan
168
Minnesota
169
Mississippi
170
Missouri
171
Montana
172
Nebraska
173
Nevada
174
New Hampshire
175
New Jersey
176
New Mexico
177
New York
178
North Carolina
179
North Dakota
Geographical distribution. Phytogeography

Topographical divisions

America

North America

United States

By state -- Continued

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

Canada

201 General works
203.A-Z By region or province, A-Z

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

Latin America

205 General works
211 Mexico

Central America

215 General works
216 Belize
217 Costa Rica
218 Guatemala
219 Honduras
220 Nicaragua
221 Panama
222 El Salvador

West Indies. Caribbean area

225 General works
226 Bahamas
227 Cuba
227.7 Hispaniola
227.8 Dominican Republic
228 Haiti
229 Jamaica
230 Puerto Rico
231.A-Z Other, A-Z
231.A48 Antigua and Barbuda
231.A5 Antilles, Lesser
231.A78 Aruba
231.B3 Barbados
231.C35 British Virgin Islands see QK231.V53
231.C87 Cayman Islands
231.C87 Curaçao
Geographical distribution. Phytogeography
Topographical divisions
America
  Latin America
    West Indies, Caribbean area
      Other, A-Z -- Continued

231.D59
  Dominica
  Dominican Republic see QK227.8

231.F74
  French West Indies

231.G73
  Grenada

231.G8
  Guadeloupe

231.M35
  Martinique

231.N4
  Netherlands Antilles

231.S3
  Saint Bartholomew

231.S33
  Saint Kitts and Nevis

231.S34
  Saint Lucia

231.S35
  Saint Martin

231.S38
  Saint Vincent and the Grenadines

231.T75
  Trinidad and Tobago

231.T87
  Turks and Caicos Islands
  United States Virgin Islands see QK231.V55

Virgin Islands
  General

231.V5
  British Virgin Islands

231.V55
  United States Virgin Islands

232
  Bermuda

South America
  General works

241
  Argentina

261
  Bolivia

263
  Brazil

264
  Chile

265
  Colombia

266
  Ecuador
  Galapagos see QK473.G2
  Guiana

266.8
  General works

267
  Guyana (British Guiana)

268
  Suriname (Dutch Guiana)

269
  French Guiana

270
  Paraguay

271
  Peru

272
  Uruguay

273
  Venezuela

274
  Falkland Islands

Atlantic Ocean Islands

275.A1
  General works

275.A3-Z
  By island or group of islands, A-Z

275.A9
  Azores
  Bermuda see QK232
  Canary Islands see QK422

275.C4
  Cabo Verde
  Falkland Islands see QK274

275.F37
  Faroe Islands

275.M3
  Madeira

275.S27
  Saint Helena
Geographical distribution. Phytogeography

Topographical divisions

Atlantic Ocean Islands

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

275.S3
Salvages Islands
275.S68
South Orkney Islands
275.T74
Tristan da Cunha Island

Europe

281
General works
Zone and physiographic divisions

297
Alpine

303.A-Z
Other, A-Z
By region or country

British Isles. Great Britain. England

306
General works
307
Ireland
307.5
Northern Ireland
308
Scotland
309
Wales
310
Austria
311
Hungary
313
France
313.5
Monaco
314
Germany

Including East and West Germany

(314.2)
East Germany

see QK314
314.5
Mediterranean Region

Including African coast

315
Greece
316
Italy
316.5
Malta
317
Benelux (Low Countries)
318
Belgium
319
Luxembourg
320
Netherlands (Holland)
321
Russia. Soviet Union. Russia (Federation)

Cf. QK372+ Former Soviet areas of Asia
Cf. QK375+ Russia (Federation) in Asia

321.5
Belarus
321.6
Moldova
321.7
Ukraine
322
Poland
323
Finland
324
Scandinavia (General)

Including Lapland

325
Denmark
325.5
Iceland
326
Norway
327
Sweden
Iberian Peninsula

328
General works
329
Spain
329.2
Gibraltar
330
Portugal
331
Switzerland
Geographical distribution. Phytogeography

Topographical divisions

Europe

By region or country -- Continued

Balkan Peninsula

Including Turkey in Europe

332
General works

332.5
Bosnia and Herzegovina

333
Bulgaria

334
Croatia

334.5
Macedonia (Republic). North Macedonia

North Macedonia see QK334.5

335
Romania

Serbia see QK336

335.5
Slovenia

336
Yugoslavia

Including Montenegro and Serbia

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

339.A5
Albania

Alps see QK297

339.A54
Andorra

339.B34
Baltic States

339.B47
Bessarabia (Moldova and Ukraine)

339.C35
Carpathian Mountains

339.C45
Central Europe

339.C5
Channel Islands

339.C65
Constance, Lake of

339.C8
Czechoslovakia. Czech Republic

339.E37
Eastern Europe

339.E8
Estonia

339.J85
Jura Mountains (France and Switzerland)

339.K67
Kosovo (Republic)

339.L3
Latvia

339.L46
Liechtenstein

339.L5
Lithuania

Mediterranean Region see QK314.5

339.N67
Northern Europe

339.P95
Pyrenees (France and Spain)

339.S55
Slovakia

Yugoslavia see QK336

Asia

341
General works

352
Afghanistan

Arabian Peninsula

353
General works

353.2
Bahrain

353.3
Kuwait

353.4
Oman

353.5
Qatar

353.6
Saudi Arabia

353.7
United Arab Emirates

353.8
Yemen

354
Baluchistan

Cf. QK358.5 Baluchistan in Pakistan

China

355
General works
Geographical distribution. Phytogeography

Topographical divisions

Asia

355.5
China -- Continued

355.6
Hong Kong

356
Macau

357
Taiwan

357
Mongolia

South Asia. British Indian Empire

357.5
General works

358
India

358.5
Pakistan

358.7
Including Baluchistan (Province)

Bangladesh

359
Sri Lanka

359.5
Nepal

359.6
Bhutan

Southeast Asia

For Malay Peninsula see QK365

360
General works

360.5
Burma. Myanmar

361
Cambodia. Laos. Vietnam. French Indonesia

364
Thailand

365
Malaysia

365.5
Including Malay Peninsula and Singapore

For Sabah and Sarawak see QK367

Malay Archipelago

366
General works

366
New Guinea

367
Indonesia

368
Philippines

Japan

For Karafuto see QK375.2

369
General works

369.3
Ryukyu Islands

370
Korea

370.3
Including South Korea

371
North Korea

371
Iran

Former Soviet areas of Asia

Cf. QK377 Caucasus

372
General works

374
Central Asia

374
General works

374.3
Kazakhstan

374.4
Kyrgyzstan

374.5
Tajikistan

374.6
Turkmenistan

374.7
Uzbekistan

375
Russia (Federation) in Asia. Siberia. Russian Far East

375
General works
Geographical distribution. Phytogeography
Topographical divisions

Asia
    Former Soviet areas of Asia
       Russia (Federation) in Asia. Siberia. Russian Far East -- Continued

375.2
Sakhalin

376
Asia Minor
    Including Turkey in Asia

377
Caucasus
    Including Armenia, Azerbaijan, Georgia (Republic)

377.3
Cyprus
377.5
Syria
377.7
Lebanon
378
Israel. Palestine
378.5
Jordan
379
Iraq
    Bahrain see QK353.2
    Kuwait see QK353.3
    Oman see QK353.4
    Qatar see QK353.5
    Saudi Arabia see QK353.6
    United Arab Emirates see QK353.7
    Yemen see QK353.8

379.5.A-Z
    Other Asian regions or countries, A-Z
379.5.E38
    East Asia
379.5.H55
    Himalaya Mountains
379.5.M36
    Mannar, Gulf of
379.5.M53
    Middle East
379.5.P47
    Persian Gulf

380
Arab countries

Africa
381
    General works
    By region or country
390
    North Africa
391
    Tropical Africa
    Eastern Africa
        Cf. QK401 East Africa
392
    General works
392.4
    Northeast Africa
393
    West Africa
393.5
    Central Africa
        Cf. QK400 Former British Central Africa
394
    Southern Africa
395
    Ethiopia. Eritrea
    Former British possessions
395.8
    General works
396
    South Africa
400
    Central Africa (General)
401
    East Africa (General)
402.A-Z
    Other special, A-Z
402.B6
    Botswana
402.E77
    Eswatini
402.G3
    Gambia
402.G5
    Ghana
402.K4
    Kenya
402.L48
    Lesotho
Geographical distribution. Phytogeography
Topographical divisions
Africa
By region or country
Former British possessions
Other special, A-Z -- Continued
Malawi
Mauritius see QK429.M3
Namibia
Nigeria
Rhodesia, Southern. Zimbabwe
Sierra Leone
Somalia see QK415
Swaziland
see QK402.E77
Uganda
Zambia
Zimbabwe see QK402.R5
Mediterranean Region (General) see QK314.5
Egypt
Sudan
South Sudan
Former French possessions
Algeria
Tunisia
Madagascar
Senegal. Senegambia
Sahara
Other special, A-Z
Benin
Burkina Faso
Cameroon see QK412
Central African Republic
Chad
Dahomey
see QK410.45
Djibouti
Gabon
Guinea
Ivory Coast. Côte d'Ivoire
Mauritania
Réunion see QK429.M27
Togo
Former German possessions
Tanzania
Rwanda
Cameroon
Namibia. Southwest Africa
Eritrea
see QK395
Somalia
Zaire. Congo (Democratic Republic)
Congo (Brazzaville)
Liberia
Morocco
Mozambique
Geographical distribution. Phytogeography

Topographical divisions

Africa

By region or country -- Continued

420
Angola
420.5
Sao Tome and Principe
421
Guinea-Bissau
422
Canary Islands
423
Western Sahara
423.5
Equatorial Guinea
  Including Fernando Po
424
Libya

Indian Ocean islands

428
General works
429.A-Z
By island or group of islands, A-Z
429.A44
Aldabra Islands
429.C4
Christmas Island. Kiritimati
429.C6
Comoros
429.E63
Éparses Islands
Madagascar see QK407
429.M24
Maldives
429.M27
Mascarene Islands
  Including Réunion
429.M3
Mauritius
429.M34
Mayotte
429.P74
Prince Edward Islands
Réunion see QK429.M27
429.S4
Seychelles
429.S6
Sokotra

Australia

431
General works
445
New South Wales
  Including Australian Capital Territory
  Norfolk Island see QK473.N67
451
Northern Territory
453
Queensland
455
South Australia
457
Tasmania
459
Victoria
461
Western Australia
463
New Zealand and adjacent islands

Pacific islands. Oceania

471
General works
473.A-Z
By island or group of islands, A-Z
  Cf. QK463 New Zealand and adjacent islands
473.B6
Bonin Island
473.C48
Chuuk (Micronesia)
473.C55
Clipperton Island
473.E17
Easter Island
473.F5
Fiji Islands
473.F74
French Polynesia
473.G2
Galapagos Islands
473.G9
Guam
473.H4
Hawaiian Islands
473.J8
Juan Fernandez (Islands)
473.K55
Kiribati
Geographical distribution. Phytogeography

Topographical divisions

Pacific islands. Oceania

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

473.K6 Kommander Islands
473.M3 Makatea
473.M34 Marianas Islands
473.M36 Marshall Islands
473.M5 Micronesia
473.M53 Midway Islands
473.N32 Nauru
473.N4 New Caledonia

New Guinea see QK366
Niihau see QK473.H4

473.N57 Niue (Island)
473.N67 Norfolk Island

Oceania see QK471+

Okinawa Islands see QK369.3

473.P3 Palmyra Island
473.P5 Pitcairn Islands
473.P75 Polynesia
473.P78 Ponape Island
473.R27 Raiatea
473.R3 Rarotonga
473.S3 Samoan Islands
473.S6 Society Islands (French Polynesia)
473.T3 Tahiti
473.T6 Tonga
473.T88 Tuvalu
473.V25 Vanuatu
473.W33 Wake Island

Polar regions

473.5 General works

Arctic regions

474 General works

474.2 Greenland

474.3 Svalbard

474.4 Antarctica

474.5 Tropics

Cf. QK391 Tropical Africa
Cf. QK936 Tropical plant ecology

Spermatophyta. Phanerogams

For general works, see general botany

Trees and shrubs

Cf. SD434+ Timber trees

474.8 Periodicals. Societies. Serials
474.83 Collected works (nonserial)
474.85 Congresses
474.87 Dictionaries and encyclopedias
475 General works, treatises, and textbooks
475.6 Pictorial works. Atlases
475.8 Juvenile works
476 Study and teaching. Research
Spermatophyta. Phanerogams

Trees and shrubs -- Continued

477

Special aspects of the subject as a whole
For historic trees, see D
For folklore of trees see GR785
For national and state trees see QK84.8+
For remarkable trees see SD383+

477.2.A-Z

Special topics, A-Z

477.2.A6

Annual rings

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

Flowering see QK830
Flowers see QK653+

477.2.I4

Identification

Rings see QK477.2.A6
Roots see QK644

Arborets. Fruticeta

479

General works

480.A-Z

By region or country, A-Z

Under each country:
.x General works
.x2A-.x2Z Local or individual. By name, A-Z

(481-493.5)

Local
see QK108+

Systematic divisions

Gymnosperms

Including orders and higher (not A-Z)

494

General works

494.5.A-Z

By family, A-Z

Class species and genera by family
Abietaceae see QK494.5.P66
Araucariaceae
Cephalotaxaceae
Coniferae see QK494
Coniferales see QK494
Cupressaceae
Cycadaceae
Ephedraceae
Ginkgoaceae
Gnetaceae
Phyllocladaceae
Pinaceae
Podocarpaceae
Sciadopityaceae (Japanese umbrella pine)
Stangeriaceae
Taxaceae
Taxodiaceae
Welwitschiaceae
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)
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.A14
Monocotyledons
Including orders and higher (not A-Z)

495.A15-Z
By family, A-Z
Class species and genera by family

495.A1655
Acanthaceae

495.A17
Aceraceae (Maple)

495.A175
Achariaceae

495.A176
Achatocarpaceae

495.A177
Actinidiaceae

495.A178
Adoxaceae (Moschatel)

495.A185
Aextoxicaceae

495.A24
Agapanthaceae

(495.A26)
Agavaceae

see QK495.A83

495.A32
Aizoaceae (Ice plant)

495.A34
Akaniaceae

495.A36
Alangiaceae

495.A4
Alismataceae (Water plantain)

495.A42
Alliaceae (Onion; garlic; leek)

Aloaceae see QK495.A42

495.A48
Amaranthaceae (Amaranth)

495.A484
Amaryllidaceae (Amaryllis)

495.A485
Acanthaceae

495.A488
Aristolochiaceae (Dutchman's pipe)

(495.A65)
Acanthaceae

see QK495.A83

495.A66
Apiaceae see QK495.U48

495.A67
Asteraceae see QK495.C74

495.A688
Aristolochiaceae (Dutchman's pipe)

495.A815
Asclepiadaceae (Milkweed)

495.A83

495.A835
Asteraceae (Aster)

495.A9
Austrobaileyaceae

495.B2
Balancapaceae

495.B23
Balanophoraceae

495.B25
Balsaminaceae (Touch-me-not)

495.B26
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
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

(495.B7)
Bombacaceae
see QK495.M27
495.B73
Boraginaceae (Borage)
Brassicaceae see QK495.C9
495.B75
Bretschneideraceae
495.B76
Bromeliaceae (Bromelia)
495.B78
Brunelliaceae
495.B785
Bruniaceae
495.B786
Brunoniaceae (Blue-pincushion)
495.B7865
Buddlejaceae
495.B79
Burmanniaceae
495.B8
Burseraceae (Incense tree)
495.B83
Butomaceae (Flowering rush)
495.B85
Buxaceae (Box)
495.B9
Byblidaceae
495.C11
Cactaceae (Cactus)
495.C1153
Caesalpiniaceae
495.C1155
Callitrichaceae (Water starwort)
495.C15
Calycanthaceae (Spicebush)
495.C17
Calyceraceae
495.C18
Campanulaceae (Bellflower)
Candolleaceae see QK495.S87
495.C182
Canellaceae
495.C194
Cannabaceae
495.C196
Cannaceae (Canna)
Capparaceae see QK495.C198
495.C198
Capparidaceae (Spiderflower)
495.C199
Caprifoliaceae (Honeysuckle)
495.C1995
Cardiopteridaceae
495.C1997
Caricaceae (Papaya)
495.C2
Caryocaraceae
495.C24
Caryophyllaceae (Pink)
495.C27
Casuarinaceae (Beefwood)
495.C385
Celastraceae (Staff tree)
495.C39
Centropleidaceae
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
Clusiaceae see QK495.G87
495.C555
Cneoraceae
495.C6
Cochlospermaceae
495.C65
Columelliaceae
495.C7
Combretaceae (White mangrove)
495.C73
Commelinaceae (Spiderwort)
495.C74
Compositae (Sunflower)
495.C76
Connaraceae
495.C78
Convolvulaceae (Morning-glory)
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.C783  Coriariaceae
495.C785  Cornaceae (Dogwood)
495.C786  Corsiaceae
495.C787  Corynocarpaceae
495.C79  Crassulaceae (Stonecrop)
495.C797  Crossosomataceae
495.C9  Cruciferae (Mustard)
495.C93  Crysperoniaceae
495.C96  Cucurbitaceae (Gourd)
495.C965  Cunoniaceae (Lightwood)
495.C967  Cuscutaceae (Dodder)
495.C97  Cyanarastraceae
495.C975  Cyclanthaceae (Panama-hat palm)
495.C979  Cymodoceaceae
495.C98  Cynomoriaceae
495.C997  Cyperaceae (Sedge)
495.C9973  Cyrrillaceae (Leatherwood)
495.D325  Daphniphyllaceae
495.D33  Datiscaceae (Durango root)
495.D34  Davidiaceae
495.D35  Davidsoniaceae
495.D4  Degeneriaceae
495.D42  Desfontainiaceae
495.D43  Dialyptetalanthaceae
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  Dysphanieae
495.E25  Ebenaceae (Ebony)
495.E33  Elaeagnaceae
495.E35  Elaeocarpaceae
495.E37  Elatinaceae (Waterwort)
495.E44  Empetraceae (Crowberry)
495.E45  Epacridaceae
495.E64  Eremolepidaceae
495.E68  Ericaceae (Heath)
495.E685  Eriocaulaceae (Pipewort)
495.E695  Erionespermaceae
  see QK495.A83
495.E82  Erythroxylaceae (Coca)
Escalloniaceae see QK495.S3
Eucalyptus see QK495.M9
Spermatophyta. Phanerogams
  Systematic divisions
  Angiosperms
    By family, A-Z -- Continued

495.E84  Eucommiaceae
495.E85  Eucryphiaceae
495.E9   Euphorbiaceae (Spurge)
495.E95  Eupomatiaceae
495.E96  Eupteleaceae
        Euryalaceae see QK495.T4
        Fabaceae see QK495.L52
495.F14  Fagaceae (Beech; Oak)
495.F55  Flacourtiaceae
495.F58  Flagellariaceae
495.F6   Fouquieriaceae (Ocotillo)
495.F67  Frankeniaceae (Alkali heath)
495.G26  Garryaceae (Silktassel bush)
495.G27  Geissolomataceae
495.G35  Gentianaceae (Gentian)
495.G37  Geosiridaceae
495.G38  Geraniaceae (Geranium)
495.G4   Gesneriaceae (African violet)
495.G56  Globulariaceae
495.G65  Gomortgaceae
495.G655 Goodeniaceae
495.G74  Gramineae (Grass)
495.G745 Giseliniaeae
495.G75  Grossulariaceae
495.G76  Grubbiaeae
495.G83  Gunneraceae
495.G87  Gutiferae (St. Johnswort)
495.G877 Gyrostemonaceae
495.H15  Haemodoraceae (Bloodwort)
495.H2   Haloragaceae (Water milfoil)
        Haloragidaceae see QK495.H2
495.H3   Hamamelidaceae (Witch hazel)
495.H35  Heliconiaceae
495.H38  Hemerocallidaceae (Daylily)
        Henriqueziaceae see QK495.R85
495.H42  Hernandiaceae
495.H5   Himantandraceae
495.H65  Hippocastanaceae (Horse chestnut)
495.H66  Hippocrateaceae
495.H67  Hippuridaceae (Mare's tail)
495.H7   Hoplestigmataceae
        Houmiriaceae see QK495.H8
495.H8   Humiriaceae
        (495.H83) Hyacinthaceae
        see QK495.A83
495.H84  Hydnoraceae
        (495.H85) Hydrocaritaceae
        see QK495.T66
495.H86  Hydrocharitaceae (Elodea)
495.H88  Hydrophyllaceae (Waterleaf)
495.H885 Hydrostachyaceae
495.H9   Hypoxidaceae
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.I25  Icacinaceae
495.I4   Illiciaceae
495.I75  Iridaceae (Iris)
495.J85  Juglandaceae (Walnut)
495.J855 Julianniaceae
495.J87  Juncaceae (Rush)
495.J875 Juncaginaceae (Arrow grass)
495.K7   Krameriaeae
495.L152 Lacistemaceae
495.L153 Lactoridacae
495.L25  Lamiaceae (Mint)
495.L32  Lardizabalaceae
495.L375 Lauraceae (Laurel)
495.L42  Lecythidaceae (Brazil nut)
495.L46  Leeaceae
495.L52  Legumes
                  Cf. QK495.C1153 Caesalpiniaeae
                  Cf. QK495.M545 Mimosiaeae
495.L524  Leitneriaeae (Corkwood)
495.L527  Lemnaceae (Duckweed)
495.L528  Lennoaceae
495.L53  Lentibulariaeae (Bladderwort)
495.L72  Liliaceae (Lily)
495.L73  Limnanthaceae (Meadowfoam)
495.L74  Linaceae (Flax)
495.L76  Lissocarpaeae
495.L78  Loasaceae (Evening star)
495.L785 Loganiaceae (Butterfly bush)
495.L87  Loranthaceae (Mistletoe)
495.L88  Lowiaceae
495.L9   Lythraceae (Crepe myrtle)
495.M24  Magnoliaceae (Magnolia)
495.M245 Malesherbiaceae
495.M26  Malpighiaeae
495.M27  Malvaceae (Mallow)
495.M28  Marantaceae (Arrowroot)
495.M285 Marogaviaceae
495.M287 Martyniaceae (Devil's claw)
495.M3   Mayacaceae (Bogmoss)
495.M5   Medusagynaceae
495.M51  Medusandraceae
495.M5135 Melanthiaceae
495.M514 Melastomataceae (Meadow beauty)
495.M52  Meliaceae (Mahogany)
495.M524 Melianthaceae (Honey bush)
495.M537 Menispermacaeae (Moonseed)
495.M5375 Menyanthaceae
495.M545 Mimosaceae
495.M55  Misodendraceae
495.M6   Molluginaceae
495.M67  Monimiaceae (Voldo)
### Spermatophyta. Phanerogams

**Systematic divisions**

**Angiosperms**

By family, A-Z -- Continued

- 495.M73 Moraceae (Mulberry)
- 495.M74 Moringaceae (Horseradish tree)
- 495.M78 Musaceae (Banana)
- 495.M8 Musales see QK495.A14
- 495.M8 Myoporaceae
- 495.M83 Myriceae (Wax myrtle)
- 495.M85 Myristicaceae (Nutmeg)
- 495.M86 Myrothamnaceae
- 495.M87 Myrsinaceae
- 495.M9 Myrtaceae (Myrtle)
- 495.N3 Naiadaceae
- 495.N33 Nelumbonaceae
- 495.N35 Nepenthaceae
- 495.N37 Neuradaceae
- 495.N58 Nitriaceae
- 495.N6 Nolanaceae
- 495.N9 Nyctaginaceae (Four-o’clock)
- 495.N97 Nymphaeaceae (Waterlily)
- 495.N975 Nyssaceae (Sour gum)
- 495.03 Ochnaceae
- 495.035 Olaceae (Tallow-wood)
- 495.04 Oleaceae (Olive)
- 495.0446 Oliniaceae
- 495.046 Onagraceae (Evening-primrose)
- 495.062 Opiliaceae
- 495.064 Orchidaceae (Orchid)
- 495.074 Orobanchaceae (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)
- 495.22 Papaverales see QK495.A12
- 495.28 Passifloraceae (Passionflower)
- 495.42 Pedaliaceae (Benne)
- 495.43 Penaeaceae
- 495.44 Pentaphragmataceae
- 495.445 Pentaphylacaceae
- 495.446 Peperomiaceseae see QK495.P67
- 495.446 Peridiscaceae
- 495.45 Philydraceae
- 495.453 Phrymaceae (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)
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.P77 Polemoniaceae (Phlox)
495.P775 Polygalaceae (Milkwort)
495.P78 Polygonaceae (Buckwheat)
495.P783 Pontederiaceae (Pickerelweed)
495.P8 Portulacaceae
495.P83 Posidoniaceae

Potaliaceae see QK495.L785
495.P85 Potamogetonaceae (Pondweed)
495.P95 Primulaceae (Primrose)
495.P957 Proteaceae (Silk oak)
495.P9575 Ptaeroxylaceae
495.P958 Punicaceae (Pomegranate)
495.P997 Pyrolaceae
495.Q5 Quinaceae
495.R15 Rafflesiaceae

Ranales see QK495.A12
495.R215 Ranunculaceae (Buttercup)
495.R215 Ranunculales see QK495.A12
495.R3 Rapateaceae
495.R4 Resedaceae (Mignonette)
495.R42 Restionaceae
495.R45 Rhamnaceae (Coffeeberry)
495.R46 Rhizophoraceae (Mangrove)

Rhoeadales see QK495.A12
495.R465 Rhoipteleaceae
495.R468 Roridulaceae
495.R78 Rosaceae (Rose)
495.R85 Rubiaceae (Madder)
495.R956 Ruppiaceae
495.R98 Rutaceae (Citrus)
495.S15 Sabiaceae
495.S16 Salicaceae (Willow)
495.S165 Salvadoraceae (Toothbrush tree)
495.S18 Santalaceae (Sandalwood)
495.S19 Sapindaceae (Soapberry)
495.S2 Sapotaceae (Chicle)
495.S225 Sarpcolaenaceae
495.S227 Sarcospermataceae
495.S23 Sargentodoxaceae
495.S24 Saraceniacaeae (Pitcher plant)
495.S27 Saururaceae (Lizard's-tail)
495.S3 Saxifragaceae (Saxifrage)
495.S35 Scheuchzeriacaeae
495.S353 Schisandraceae (Bay-star vine)

Scitamineae see QK495.A14
495.S43 Scrophulariaceae (Figwort; snapdragon)
495.S45 Scrophulousiaceae
495.S47 Scytotitalaceae
495.S59 Simaroubaceae (Tree of heaven)
495.S62 Siparunaceae
495.S65 Smilacaceae
495.S7 Solanaceae (Nightshade)
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.S74  Sonneratiaceae
495.S745  Sparganiaceae (Bar-reed)
495.S7455  Sphaerosepalaceae
495.S7456  Sphenocleaceae
495.S746  Stachyuraceae
495.S7465  Stackhousiaceae
495.S747  Staphyleaceae (Bladdernut)
495.S748  Stemonaceae
495.S78  Sterculiaceae (Cacao)
495.S785  Strasburgeriaceae
495.S787  Styliidaeae
495.S79  Styrcaceae (Silverbell tree)
495.S795  Symplacaceae (Sweetleaf)
495.T3  Taccaceae
495.T35  Tamaricaceae (Tamarisk)
495.T355  Tetracentraceae
495.T4  Theaceae (Tea)
495.T45  Theilgionaceae
(495.T455)  Themidaceae
            see QK495.A83
495.T457  Theophrastaceae (Joewood)
495.T46  Thurniaceae
495.T48  Thymelaeaceae
495.T5  Tiliaceae (Linden)
495.T6  Tovariaceae
495.T66  Trapaceae (Water chestnut)
495.T7  Tremandraceae
495.T73  Trigoniaceae
495.T735  Trilliaceae
495.T74  Trimeniaceae
495.T745  Triuridaceae
495.T75  Trochodendraceae
495.T77  Tropaeolaceae (Nasturtium)
495.T8  Turneraceae
495.T9  Typhaceae (Cattail)
495.U4  Ulmaceae (Elm)
495.U48  Umbelliferae (Parsley)
495.U7  Urticaceae (Nettle)
495.V3  Valerianaceae
495.V4  Velloziaceae
495.V48  Verbenaceae (Verbena)
495.V5  Violaceae (Violet)
495.V53  Viscaceae
495.V55  Vitaceae (Grape)
495.V56  Vochysiaceae
495.W5  Winteraceae
495.X3  Xanthorrhoeaceae
495.X9  Xyridaceae (Yelloweyed grass)
495.Z3  Zannichelliaea
495.Z65  Zingiberaceae (Ginger)
495.Z7  Zosteraceae
495.Z9  Zygophyllaceae (Creosote-bush)
Cryptogams
   Including Archegoniatae
   For bacteria see QR1+
504 Periodicals, societies, congresses, serial publications
505 General works, treatises, and textbooks
505.5 Juvenile works
506 Anatomy, physiology, etc.
507 Classification. Systematic works
   Local
509 North America
   United States
510 General works
511.A-Z By region or state, A-Z
      Canada
511.2 General works
511.3.A-Z By region or province, A-Z
      Latin America
511.7 General works
      Mexico
512 General works
512.2.A-Z By region or state, A-Z
      Central America (Table Q3)
512.5 West Indies. Caribbean Area (Table Q3)
512.6 South America (Table Q3)
   Europe
512.7 General works
513 Great Britain
514.A-Z Other European regions or countries, A-Z
515 Asia (Table Q3)
516 Afrika (Table Q3)
517 Australia
517.5 New Zealand
518 Pacifc islands (Table Q3)
519 Arctic regions
519.5 Antarctica
Pteridophyta (Ferns, etc.)
520 Periodicals, societies, congresses, serial publications
521 Anatomy, physiology, etc.
522 General works, treatises, and textbooks
522.5 Juvenile works
523 Classification. Systematic works
523.3 Catalogs and collections
524.A25 Actiniopteridaceae
524.A29 Adiantaceae
      (524.A65) Aspidiaceae
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524.A7 Aspleniaceae
524.A76 Athyriaceae
524.A94 Azollaceae
524.C9 Cyatheaceae
524.D5 Dennstaedtiaceae
524.D55 Dicksoniaceae
524.D79 Dryopteridaceae
524.E6 Equisetaceae
524.H87 Huperziaceae
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524.H9
  Hymenophyllaceae
524.I8
  Isoetaceae
524.L64
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524.L9
  Lycopodiaceae
524.M3
  Marattiaceae
524.M4
  Marsileaceae
524.O7
  Ophioglossaceae
524.O8
  Osmundaceae
524.P3
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524.P7
  Polypodiaceae
524.P77
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  Pteridaceae see QK524.A29
524.S33
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524.S35
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524.S46
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524.T54
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For particular taxa see QK524.A+

524.35
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  Physiographic divisions (General)
524.37
  Water
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  North America
524.5
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524.7
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525
  General works
525.5.A-Z
  By region or state, A-Z
  Canada
525.6
  General works
525.7.A-Z
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525.8
  General works
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525.85
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525.9.A-Z
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526
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526.2
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526.5
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527
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529
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530
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531
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531.5
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532
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532.4
  Periodicals. Societies. Serials
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- **532.42** Congresses
- **532.5** Dictionaries and encyclopedias
  - History
- **532.6** General works
- **532.65.A-Z** By region or country, A-Z
  - Biography
- **532.7** Collective
- **532.75.A-Z** Individual, A-Z
- **532.8** Directories
- **533** General works, treatises, and textbooks
- **533.3** Juvenile works
- **533.35** Addresses, essays, lectures
  - Rare and endangered bryophytes
  - General works
- **533.5.A-Z** By region or country, A-Z
- **533.6** Anatomy, physiology, etc.
- **533.7** Classification. Systematic works
- **533.74** Catalogs and collections
  - By region or country
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  - By region or state, A-Z
- **533.84.A-Z** Other regions or countries, A-Z

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- **534** Periodicals, societies, congresses, serial publications
- **535** Anatomy, physiology, etc.
- **537** General works, treatises, and textbooks
- **537.5** Juvenile works
- **538** Classification. Systematic works
- **538.4** Catalogs and collections
- **539.A-Z** Systematic divisions, A-Z
  - **539.A6** Amblystegiaceae
  - **539.B68** Brachytheciaceae
  - **539.B7** Bryaceae
  - **539.B97** Buxbaumiaceae
  - **539.D5** Dicranaceae
  - **539.E76** Erpodiaceae
  - **539.F5** Fissidentaceae
  - **539.F6** Fontinalaceae
  - **539.F98** Funariaceae
  - **539.G7** Grimmiiaceae
  - **539.H64** Hookeriaceae
  - **539.H95** Hypnales
  - **539.H96** Hypopterygiaceae
  - **539.M68** Mniaceae
  - **539.O7** Orthotrichaceae
  - **539.O75** Orthotrichales
  - **539.P7** Plagiotheciaceae
  - **539.P78** Polytrichaceae
  - **539.P8** Pottiaceae
  - **539.P93** Pterobryaceae
  - **539.S46** Seligeriaceae
  - **539.S75** Sphagnaceae
  - **539.S76** Splachnaceae
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539.T58
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540.4
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  North America

540.5
  General works

540.7
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541
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541.5.A-Z
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541.6
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541.7.A-Z
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541.85
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543
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546
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547
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548
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549
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549.5
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551
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553
  General works, treatises, and textbooks

554
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555.A-Z
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555.A5
  Aneuraceae

(555.A6)
  Anthocerotaceae
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555.B34
  Balantiopsaceae

555.B7
  Bryopteridaceae

555.D5
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555.F6
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555.F9
  Frullaniaceae

555.G44
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555.G7
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555.H35
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555.J9
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555.L37
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555.L4
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555.L58
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555.L6
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555.M4
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555.P45
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555.P6
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555.R5
  Ricciaceae
555.S34
  Scapaniaceae
555.T3
  Targioniaceae

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555.4
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555.5
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555.7
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  United States
556
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556.5.A-Z
  By region or state, A-Z
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556.6
  General works
556.7.A-Z
  By region or province, A-Z
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556.8
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557.45
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557.5
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558
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559.A-Z
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560
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561
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562
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562.5
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563
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563.5
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563.725
  Southern hemisphere

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563.75
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563.77
  Anatomy, physiology, etc.
563.8
  General works, treatises, and textbooks
563.84
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563.85.A-Z
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         Anthoceros
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   Congresses
564.5
   Collected works (nonserial)
564.6
   Dictionaries and encyclopedias
   History
      564.7
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      564.73
         By region or country, A-Z
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      564.75
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      564.77
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564.8
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      Including cytology, morphology
565
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565.2
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565.5
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566
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566.3
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567
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567.5
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568.A-Z
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568.B55
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568.E26
   Ecology
      For systematic treatment see QK569.A+
      For geographic treatment see QK570+
568.E85
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568.M52
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      For systematic treatment see QK569.A+
      For geographic treatment see QK570+
568.T67
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569.A43
   Alariaceae
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569.B15
   Bacillariaceae
   Bacillariophyceae. Bacillariophyta see QK569.D54
569.B2
   Bangiaceae
569.B25
   Batrachospermae
569.C37
   Caulerpaceae
569.C39
   Centrales
569.C4
   Ceramiaceae
569.C44
   Chaetangiaceae
569.C45
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569.C455
   Chaetophorales
569.C47
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569.C48
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569.C483
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569.C484  Chattonellaceae
569.C486  Chlamydomonadaceae
569.C49  Chlorellaceae
569.C494  Chlorococcaceae
569.C496  Chloroccales
569.C6  Chlorophyta (Green algae)
569.C617  Chromophyta
569.C62  Chrysophyceae
569.C622  Chrysophytes
569.C624  Cladophoraceae
569.C63  Coccolithophoridaceae
569.C65  Codiaceae
569.C73  Coleochaetaceae
569.C8  Corallinaceae
569.C86  Crossocarpaceae
569.C95  Cryptonemiaceae
569.C956  Cyanidiaceae
  Cyanophyta see QR99.6+
569.C97  Cystoseiraceae
569.D3  Dasyaceae
569.D33  Dasycladaceae
569.D34  Dasycladales
569.D4  Delesseriaceae
569.D43  Desmerestiacae
569.D46  Desmidiales
  Desmidiales see QK569.D46
  Desmidiales (Zygnematales) see QK569.Z82
569.D54  Diatoms (Bacillariophyceae. Bacillariophyta. Diatomophyceae)
569.D55  Dinamoebales
569.D56  Dinoflagellates
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569.E9  Euglenaceae
569.E93  Euglenids
569.E96  Eustigmatophyceae
569.F64  Florideae
569.F73  Fragilariaeae
569.F95  Fucaceae
569.G4  Gelidiaceae
569.G42  Gelidiales
569.G5  Gigartinaceae
569.G7  Gonidomataceae
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569.L2  Laminariaceae
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569.L5  Lemaneaceae
569.L53  Lessoniaceae
569.L56  Lithodermataceae
569.M27  Mallomonadaceae
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569.M48  Mesotaeniaceae
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Myxophyceae see QR99.6+

569.N37
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569.N43
Nemaliales

569.N45
Nemastomataceae
Nostocaceae see QR99.7.N67

569.O37
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569.O4
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569.O6
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569.P33
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569.P35
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569.P39
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569.P47
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569.P5
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569.P54
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569.P65
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569.P68
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569.P9
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569.P93
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569.P97
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569.P974
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569.P98
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569.R26
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569.R37
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569.R4
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569.R6
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569.S32
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569.S36
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569.S43
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569.S53
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569.S56
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569.S7
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569.T47
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569.T73
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569.U46
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569.U5
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569.U6
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569.V3
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569.V35
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569.V9
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569.V93
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569.Z8
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570.4
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570.5
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570.7
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571.6
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571.7.A-Z
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572.9
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585.C3  Caloplacaceae
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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  Thelenellaceae
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585.T7  Trypetheliaceae
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        - 604.2.E85 Endophytic fungi
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    - 604.2.H95 Hypogeous fungi
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    - 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 Phytotrophic 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 Predaceous 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
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Cf. SB352.85+ Culture
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Cf. TP433 Food processing and manufacture
Cf. TP580+ Brewing
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621.E49 Entomophthoraceae
621.E5 Entophlyctaceae
621.L44 Leptomitales
Molds see QK600+
621.M6 Monoblepharidaceae
621.M64 Mortierellaceae
621.M94 Mucoraceae
621.M96 Mucorales
621.O4 Olpidiaceae
Oomycetes see QK621.A1
621.P45 Peronosporaceae
621.P47 Peronosporales
621.P9 Pythiaceae
621.R5 Rhipidiaceae
621.S24 Saprolegniaceae
621.S25 Saprolegniales
621.S9 Synchytriaceae
621.T45 Thraustochytriaceae
Trichomycetes see QK621.A1
621.W6 Woroniaceae
Ascomycetes
623.A1 General works, treatises, and textbooks
623.A2-Z Special, A-Z
623.A8 Ascobolaceae
Aspergillus see QK625.M7
623.A93 Asterinales
623.C36 Capnodiaceae
623.C53 Chaetomiaceae
623.C55 Clavicipitaceae
623.C57 Clavicipitales
623.D47 Dermateaceae
623.D55 Diaporthales
Discomycetes see QK623.A1
623.D72 Dothideaceae
623.D74 Dothideales
623.E4 Elaphomycetaceae
623.E56 Endomycetaceae
623.E7 Erysiphaceae
623.E73 Erysiphales
623.E85 Eurotiaceae
(623.E85) see QK623.T75
623.G55 Gnomoniaceae
623.G94 Gymnoascales
623.H35 Helotiaceae
623.H4 Helvellaceae
623.H76 Hyaloscyphaceae
623.H86 Hypocreaceae
623.H87 Hypomycetaceae
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623.H88
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623.L3
Laboulbeniales

623.L39
Leotiales

623.L6
Lophiostomataceae

623.M36
Manglicolataceae

623.M38
Melanconidaceae

623.M39
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Meliolataceae see QK623.M4

623.M4
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623.M5
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623.M63
Monascataceae

623.M65
Morchellataceae

623.M89
Mycinoclaicales

623.M93
Mycosphaerellatales. Mycosphaerellataceae

623.N43
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623.O58
Onygenataceae

623.O6
Ophiostomataceae

623.O75
Otideataceae
Patellariaeae see QK623.P5
Penicilliata see QK625.M7

623.P5
Pezizataceae

623.P53
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623.P6
Phacidiataceae

623.P62
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623.P63
Phyllachorataceae

623.P66
Pleosporataceae

623.P68
Pleosporatales

623.P8
Pseudospheraeataceae
Pyrenomycetales see QK623.A1

623.P93
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623.P95
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623.R45
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623.S23
Saccharomyctataceae

623.S26
Sarcoscyphataceae

623.S27
Sarcosomataceae

623.S3
Sclerotiniaeaee

623.S6
Sordariaeae

623.S73
Sphaerataceae

623.S76
Sphaerialae

623.T3
Taphrinataceae

623.T54
Thermoascataeae

623.T75
Trichocomaeeae

623.T8
Tuberataeae

623.V35
Valsataeae

623.V46
Venturiaeeae

623.X9
Xylariaeae

623.Z64
Zopfiaeeae

Fungi imperfecti (Deuteromycetes)

625.A1
General works, treatises, and textbooks

625.A2-Z
Special, A-Z

625.A48
Agonomycetaeae
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Fungi imperfecti (Deuteromycetes)
Special, A-Z -- Continued

625.C76
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625.D4
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625.E9
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625.E9
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625.L4
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625.M4
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625.M7
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625.M74
Moniliales
625.M9
Mycelia Sterilia
625.R4
Nectrioidaceae see QK625.Z9
625.S5
Phyllostictaceae see QK625.S5
625.S5
Phyllostictales see QK625.S6
625.S7
Rhizoctonia
625.S7
Sphaerioidaceae see QK625.S5
625.S8
Sphaeropsidaceae
625.T8
Stilbellaceae
625.Z9
Stilbellales

Basidiomycota

626
General works, treatises, and textbooks
Teliomycetes
626.3
General works, treatises, and textbooks
626.5
Septobasidiales. Septobasidiaceae
627.A1
Uredinales (Rust fungi)
627.A2-Z
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. Cryptomycocolaceae
627.5
Exobasidiales
627.53.A-Z
Special, A-Z
627.53.E93
Exobasidiaceae
627.6
Graphiolales. Graphiolaceae
627.7
Platygloeales. Platygloeaceae
627.8
Sporidiales. Sporidiobolaceae
627.U8
Ustilaginales (Smut fungi)
628.A1
General works, treatises, and textbooks
628.A2-Z
Special, A-Z
628.T5
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628.U8
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  Fungi
  Systematic divisions
  Basidiomycota -- Continued
  Basidiomycetes

628.5 General works, treatises, and textbooks
629.A-Z Special, A-Z
629.A4 Agaricaceae
629.A44 Agaricales
629.A53 Amanitaceae
(629.A58) Aphyllophorales
  see QK628.5
629.A74 Atheliaceae
629.A8 Auriculaceae. Auriculariaceae
629.B58 Bolbitiaceae
629.B6 Boletaceae
629.B63 Boletales
629.C3 Cantharellaceae
629.C33 Cantharellales
629.C6 Clavariaceae
629.C783 Coriolaceae
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
Gasteromycetes see QK626+
629.G4 Geastraceae
Geastrales see QK629.L92
629.G6 Gomphaceae
629.H8 Hydnaceae
629.H86 Hygrophoraceae
629.H89 Hymenochaetaceae
629.H9 Hymenogastraceae
Hymenomycetes see QK626+
629.L33 Lachnocladiaceae
629.L9 Lycoperdaceae
629.L92 Lycoperdales
629.M4 Melanogastraceae
629.N5 Nidulariales. Nidulariaceae
629.P55 Peniophoraceae
629.P6 Phallaceae
629.P63 Phallales
629.P64 Phanerochaetaceae
629.P67 Pluteaceae
629.P7 Polyporaceae
629.P74 Poriales
(629.R5) Rhodophyllaceae
  see QK629.E56
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629.R87
Russulaceae
629.S35
Sclerodermataceae
(629.S4)
Septobasidiaceae
see QK626.5
629.S73
Stereaceae
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
Plant anatomy
Vegetative organs
  Shoot
    Stem -- Continued
  Tree trunks
  Wood
  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.
Phylogeny
  see QK989
Nomenclature of color as applied to plant description
Histology
Technique
  Including microscopy, microtechnique, photomicrography
Individual parts
  see QK644+
Plant physiology
  Periodicals, societies, serial publications
  Congresses
    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

717
Plant ecophysiology
   Including plant resource allocation
   For geographic treatment see QK108+
   For systematic treatment see QK494+
   For physiographic treatment see QK930+

Physical plant physiology

720
Physiology of the vegetative organs (General)
   For individual organs and groups of organs see QK644+

725
Plant cells and tissues

728
Molecular biology
   Growth. Development
      Including pattern formation
      Cf. QK665 Embryology

731
General works

740
Germination

745
Factors influencing growth

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

746
General works, treatises, and textbooks
   Including nutritive matter, etc.
   Pollutants
      Cf. SB744.5+ Plant pathology

750
General works

751
Air pollutants
   Cf. SB745 Plant pathology

753.A-Z
Special chemicals, A-Z

753.A25
Acids

753.A4
Alkaloids

753.A45
Aluminum

753.A78
Arsenic
   Ascorbic acid see QK753.V58

753.A79
Atrazine

753.A8
Auxin

753.B4
Benzylaminopurine

753.B6
Borax

753.B7
Boron

753.C16
Cadmium

753.C2
Calcium

753.C3
Carbon dioxide

753.C58
Chelates

753.C6
Chlorides

753.C62
Chlorophenoxyacetic acid

753.C67
Cobalt

753.C7
Colchicine

753.C74
Copper

753.C743
Copper chlorides

753.D4
Detergents

753.D5
Dichlorophenoxyacetic acid

753.E7
Essences and essential oils

753.E8
Ethylene

753.F5
Fluorescein

753.F53
Fluorides

753.G45
Galactose
Plant physiology
  Physical plant physiology
   Chemical agents affecting plants
    Special chemicals, A-Z -- Continued
    Gases
    753.G47
    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.P4
    Petroleum
    753.P48
    Phosphorus
    753.P65
    Poisons
    753.P67
    Polycyclic aromatic hydrocarbons
    753.P7
    Potassium
    753.R33
    Radioactive substances
     Cf. SB746 Plant pathology
    753.S3
    Salt
    753.S32
    Salts
    753.S5
    Silicon
    753.S57
    Sodium fluoride
    753.S6
    Sodium sulfate
    753.S65
    Succinic acid
    753.S7
    Sugars
    753.S8
    Sulfates
    753.S84
    Sulfur
    753.S85
    Sulfur dioxide
    753.T5
    Thallium
    753.T53
    Thiamine
    753.T55
    Thioureas
    753.T7
    Trace elements
    753.T75
    Tritium
    753.V58
    Vitamin C
    753.X45
    Xenobiotics
    753.Z5
    Zinc
  Physical agents affecting plants (General)
   Cf. QK870+ Effect of floods, water levels, etc.
  754
  General works
  754.4
  Atmosphere
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
  Movements. Irritability in plants
771
  General works
  Movements affecting growth
773
  Nutation. Torsion
  Climbing plants, tendrils, etc.
776
  Miscellaneous induced movements
  Including geotropism, phototropism, heliotropism, etc.
791
  Movements of variation (not affecting growth)
793
  Mechanics
  Reproduction
  Cf. QK982 Hybridization
825
  General works
826
  Asexual reproduction
827
  Sexual reproduction
828
  General works
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
  Aminoacyl-tRNA
898.A53
  Amyloid
898.A55
  Anthocyanins
898.A57
  Antioxidants
898.A59
  Antiviral proteins
898.A67
  Arabinoglactan
898.A7
  Ascorbic acid
898.A74
  Asparagine
898.A8
  Auxin
898.B54
  Bioactive compounds
898.B56
  Biogenic amines
898.B85
  Brassinosteroids
898.C2
  Calcium
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  Depsides
898.D54  Dimethylpropiothetin
898.D4  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.G47  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  Limonoids
898.L56  Lipids
898.L9  Lycopene
898.M25  Malate dehydrogenase
898.M28  Malonic acid
898.M3  Manganese
898.M8  Mucilage
898.N5  Nicotinic acid
898.N57  Nitrates
898.N58  Nitric oxide
898.N6  Nitrogen
898.N8  Nucleic acids
898.N83  Nucleotides
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  Patellarian 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  Phytochromes
898.P68  Phytomelanes
898.P7  Pigments
898.P73  Plastocyanin
898.P75  Plumieride
898.P756  Polyanimes
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
  History -- Continued
  900.7
  General works
  900.73.A-Z
  By region or country, A-Z
  901
  General works, treatises, and textbooks
  (903)
  Ecological discussion of areas
    see QK108+
  (905)
  Plant ecophysiology
    see QK717
  909
  Illustrations of floral ecology of regions
  909.5
  Vegetation productivity. Primary productivity
    Cf. QK564+ Algae
    Cf. QK882 Photosynthesis
    Cf. QK933+ Phytoplankton
    Cf. QK938.F6 Forest ecology
  910
  Vegetation dynamics
  911
  Vegetative interrelation. Plant communities. Phytosociology
  Plant adaptation
  912
  General works
  913
  Acclimatization
    Cf. QK754.5+ Vegetation and climate
  914
  Phenology
  Nutritive adaptation
  915
  General works
  916
  Aquatics, ice plants, dew plants
  917
  Insectivorous plants. Carnivorous plants
  918
  Parasites, saprophytes, symbionts
  Protective adaptations
  921
  General works
  922
  Epiphytes, xerophytes, salt-marsh and desert plants
    Cf. QK938.D4 Desert flora
    Cf. QK938.S27 Salt marsh flora
  923
  Spines, secretion, raphides
  924
  Myrmecophilism, acarophilism
  924.5
  Plant canopies
  Reproductive interrelation
  925
  General works
  926
  Pollination
  929
  Dissemination
  Physiographic regions (General)
    For geographic treatment see QK108+
  Water
  930
  General works
  931
  Marine
    Cf. QK938.C6 Coasts
  Freshwater
  932
  General works
  932.7
  Streams
    Cf. QK105 Flora
  Phytoplankton
  933
  General works
  934
  Marine
  935
  Freshwater
  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
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   Cf. QK938.M27 Mangrove forests and swamps
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  982  Hybridization
  983  Variation
  985  Selection, natural and artificial
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  987  Degeneration
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1 Periodicals, societies, congresses, serial publications
3 Collected works (nonserial)
5 Voyages and expeditions
7 Encyclopedias
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9.2 General works
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Cf. QL353+ Nomenclature

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31.C9 Cuvier

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45 1760-1969
45.2 1970-

46 Pictorial works and atlases
46.5 Zoological illustrating

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47.2 1970-

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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
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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
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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
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   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
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   Cf. SF760.A55 Veterinary medicine
63 Taxidermy
   Cf. QL618.6 Fish mounting
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67 Preservation techniques
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   For works on conserving particular animals or the fauna of particular places, see systematic or
   geographical subdivisions in QL, e.g. QL366+
   Including rare and endangered vertebrates
   For habitat improvement of game animals see SK356.W54
   Cf. HE5620.W54 Wildlife and traffic safety
   Cf. QL676.5+ Bird refuges
   Cf. SK351+ Wildlife management (Hunting sports). Game protection
   Cf. SK590+ Wild animal trade
81.5  Periodicals. Societies. Congresses
81.7  History (General)
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82  General works
83  Juvenile works
83.15  Study and teaching. Research
83.17  Wildlife monitoring
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Cf. GR705+ Animal folklore
Cf. GR825+ Mythical animals
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Geographical distribution
Physiographic divisions -- Continued
Aquatic
  General works
  Marine
  Freshwater
Topographic divisions
365.4
  North America (United States and Canada) (Table Q3)
  Latin America
  General works
  Mexico, Central America, and West Indies (Table Q3)
  South America (Table Q3)
  Atlantic Ocean and islands (Table Q3)
  Europe (Table Q3)
  Asia (Table Q3)
  Africa (Table Q3)
  Indian Ocean and islands (Table Q3)
  Australia
  New Zealand
  Pacific Ocean and islands. Oceania (Table Q3)
  Arctic Ocean and regions
  Antarctic Ocean and Antarctica
  Tropics
Protozoa
  Cf. QR251+ Pathogenic protozoa
366
  General works, treatises, and textbooks
  Classification
  Geographical distribution
  For geographical distribution of systematic divisions see QL368.A115+
367
  General works
  North America (United States and Canada) (Table Q3)
  Mexico, Central America, and West Indies (Table Q3)
  South America (Table Q3)
  Europe (Table Q3)
  Asia (Table Q3)
  Africa (Table Q3)
  Australia
  New Zealand
  Pacific islands (Table Q3)
  Arctic regions
  Antarctic
  Tropics
Systematic divisions
368.A115
  Plasmodroma
368.A12
  Mastigophora (Phytomastigia; Zoomastigia). Flagellata
368.A14
  Sarcodina (Rhizopoda; Actinopoda)
368.A16
  Apicomplexa (Sporozoa)
368.A18
  Cnidosporidia
368.A2
  Ciliophora
368.A22
  Ciliata (Holotricha; Spirotricha; Peritricha)
  Suctoria see QL368.S9
368.A3-Z
  By order or higher taxa, A-Z
    Class works on species, genera, and families by order
368.A32
  Acantharia
368.A33
  Acanthometrida
Invertebrates
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

368.A335  Acanthophractida
368.A36    Aconchulinida
368.A38    Acrasida
368.A4     Actinomyxida
368.A44    Actinophryida
368.A5     Amoebida
368.A57    Apostomatida
368.A63    Arcellinida
368.A66    Archigregarinida
368.A8     Astomatida
368.A85    Athalamida
368.B5     Bicosoecida
368.B55    Blastocystida
368.C4     Centrohelida
368.C48    Chloromonadida
368.C5     Choanoflagellatea. Choanoflagellida (Choanoflagellates)
368.C54    Chonotrichida
368.C57    Chrysomonadida
368.C59    Coccidia
368.C6     Coccolithophorida
368.C8     Cryptomonadida
368.C9     Ctenostomatida see QL368.O4
368.D4     Desmothoracida
(368.D6)   Dinoflagellida
           see QK569.D56
368.D65    Diplomonadida
368.E2     Ebriida
368.E5     Entodiniomorphida
(368.E9)   Euglenida
           see QK569.E93
368.E92    Eugregarinida
368.E95    Eumycetosoida
368.F6     Foraminiferida
368.G8     Gregarinida
368.G85    Gromiida
368.G9     Gymnostomatida
368.H33    Haemopoxida
368.H34    Haplosporida
368.H4     Helicosporida
368.H5     Heliozoida
368.H53    Heterochlorida. Xanthomonadida
368.H55    Heterotrichida
368.H87    Hymenostomatida
368.H9     Hypermastigida
368.H95    Hypotrichida
            Infusoria see QL366
368.K5     Kinetoplastida
368.L3     Labyrinthulida
368.L62    Lobosa
368.M5     Microsporida
368.M78    Mycetozoida
368.M8     Myxosporida
Invertebrates
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

368.N4
Neogregarinida
368.O3
Oculosida
368.O4
Odontostomatida. Ctenostomatida
368.O5
Oligotrichida
368.O7
Opalinida
368.O9
Oxynomadida
368.P4
Peritrichida
Phytophomonadida see QL368.V6
368.P52
Piroplasmida
368.P55
Plasmodiophorida
368.P62
Polymastigida
368.P65
Porulosida
368.P7
Proteomyxida
368.P74
Protococcida
Protomastigida see QL368.P76
368.P76
Protomonadida. Protomastigida
368.R2
Radiolarida
368.R43
Retortamonadida
368.R5
Rhizomastigida
Sarcosporida see QL368.T6
(368.S5)
Silicoflagellida
see QK569.S53
368.S9
Suctorida
368.T4
Testacida
368.T5
Thigmotrichida
368.T55
Tintinnida
368.T6
Toxoplasmida. Sarcosporida
368.T7
Trichomonadida
368.T76
Trichostomatida
368.V6
Volvocida. Phytophomonadida
Xanithomonadida see QL368.H53
368.X4
Xenophyophorida
368.Z66
Zooflagellates
369
Anatomy and morphology
369.2
Physiology
Porifera (Sponges)
370.7
Periodicals, societies, congresses, serial collections
371
General works, treatises, and textbooks
371.2
Pictorial works and atlases
371.4
Popular works
371.6
Juvenile works
Geographical distribution
For geographical distribution of systematic divisions see QL373.A+
372
General works
372.1
North America (United States and Canada) (Table Q3)
372.2
Mexico, Central America, and West Indies (Table Q3)
372.3
South America (Table Q3)
372.4
Europe (Table Q3)
372.5
Asia (Table Q3)
372.6
Africa (Table Q3)
372.7
Australia
372.75
New Zealand
Invertebrates
Porifera (Sponges)

Geographical distribution -- Continued
372.8 Pacific islands (Table Q3)
372.9 Arctic regions
372.95 Antarctica
372.96 Tropics
   Class here works on species, genera, families and orders
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
   Anthozoa (Corals)
   General works
377.C5 Alcyonaria
377.C6 Zoantharia
377.C7 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)
Invertebrates

Ctenophora

Geographical distribution -- Continued

380.46 Australasia and Indo-Pacific islands (Table Q3)
380.48 Polar regions
380.49 Tropics
380.5.A-Z Systematic divisions. By classes and orders

Class works on species, genera, and families by order

380.5.N8-.N83 Nuda
380.5.N8 General works
380.5.N83 Beroida
380.5.T4-.T47 Tentaculata
380.5.T4 General works
380.5.T42 Cestida
380.5.T429 Cydippida
380.5.T45 Lobata
380.5.T47 Platyctenea

380.7 Anatomy and morphology
380.8 Physiology

Echinodermata

381 General works, treatises, and textbooks
382 Classification
382.2 Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL384.A+

383 General works
383.1 North America (United States and Canada) (Table Q3)
383.2 Mexico, Central America, and West Indies (Table Q3)
383.3 South America (Table Q3)
383.35 Atlantic islands (Table Q3)
383.4 Europe (Table Q3)
383.5 Asia (Table Q3)
383.6 Africa (Table Q3)
383.7 Australia
383.75 New Zealand
383.8 Pacific islands (Table Q3)
383.9 Arctic regions
383.95 Antarctica
383.96 Tropics


Class works on species, genera, and orders by class

384.A8 Asteroidea (Starfishes)
384.C8 Crinoidea
384.E2 Echinoidea (Sea urchins)
384.H7 Holothuroidea (Sea cucumbers)
384.O6 Ophiuroidea (Brittle stars)
385 Anatomy and morphology
385.2 Physiology

Worms and other vermiform invertebrates

386.A1 Periodicals, societies, congresses, serial publications
386.A3-Z General works, treatises, and textbooks

Cf. QL392.A1+ Helminthology

386.6 Juvenile works
387 Classification
387.2 Catalogs and collections
Invertebrates
Worms and other vermiform invertebrates -- Continued

Geographical distribution
   For geographical distribution of systematic divisions see QL391.A+

388
   General works, treatises, and textbooks
388.1
   North America (United States and Canada) (Table Q3)
388.2
   Mexico, Central America, and West Indies (Table Q3)
388.3
   South America (Table Q3)
388.4
   Europe (Table Q3)
388.5
   Asia (Table Q3)
388.6
   Africa (Table Q3)
388.7
   Australia
388.75
   New Zealand
388.8
   Pacific islands (Table Q3)
388.9
   Arctic regions
388.95
   Antarctica
388.96
   Antarctica
388.75
   New Zealand
388.8
   Pacific islands (Table Q3)
388.9
   Arctic regions
388.95
   Antarctica
388.96
   Antarctica

391.A-Z
   Systematic divisions. By phylum, A-Z
391.A2
   Acanthocephala (Spiny-headed worms)
391.A6
   Annelida (Segmented worms)
   Cestoda see QL391.P7
391.C6
   Chaetognatha (Arrowworms)
391.E2
   Echiura
391.G2
   Gastrotricha
391.G63
   Gephyrea (Gastrotricha) see QL391.E2
   Gephyrea (Sipuncula) see QL391.S5
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
Invertebrates -- Continued

Brachiopoda (Lamp shells)

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

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

395.2  North America (United States and Canada) (Table Q3)
395.23  Mexico, Central America, and West Indies (Table Q3)
395.25  South America (Table Q3)
395.3  Europe (Table Q3)
395.4  Asia (Table Q3)
395.5  Africa (Table Q3)
395.6  Australia
395.63  New Zealand
395.67  Pacific islands (Table Q3)
395.7  Arctic regions
395.75  Antarctica
395.76  Tropics
  For works on higher taxa, see QL395+

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

Bryozoa (Ectoprocta; Polyzoa)

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

Geographical distribution
  For geographical distribution of systematic divisions see QL398.A+

397  General works
397.1  North America (United States and Canada) (Table Q3)
397.2  Mexico, Central America, and West Indies (Table Q3)
397.3  South America (Table Q3)
397.4  Europe (Table Q3)
397.5  Asia (Table Q3)
397.6  Africa (Table Q3)
397.7  Australia
397.75  New Zealand
397.8  Pacific islands (Table Q3)
397.9  Arctic regions
397.95  Antarctica
397.96  Tropics
  For works on higher taxa, see QL398+

398.C5  Cheilostomata
398.C8  Ctenostomata
398.C9  Cyclostomata

Ectoprocta see QL396+
Entoprocta see QL400+
Invertebrates
Bryozoa (Ectoprocta; Polyzoa)
   Systematic divisions. By order, A-Z -- Continued
398.L6       Lophopoda
399          Anatomy and morphology
399.2        Physiology
Entoprocta (Callyssozoa; Endoprocta)
400          General works, treatises, and textbooks
Geographical distribution
   For geographical distribution of systematic divisions see QL400.5.A+
400.3        General works
400.32       North America (United States and Canada) (Table Q3)
400.35       Mexico, Central America, and West Indies (Table Q3)
400.37       South America (Table Q3)
400.4        Europe (Table Q3)
400.42       Asia (Table Q3)
400.44       Africa (Table Q3)
400.46       Australasia and the Indo-Pacific islands (Table Q3)
400.48       Polar regions
400.49       Tropics
400.5.A-Z    Systematic divisions. By family, A-Z
   Class here works on species, genera, and families
   Class higher taxa in QL400+
400.5.L6     Loxosomatidae
400.5.P4     Pedicellinidae
400.5.U7     Urnatellidae
Mollusca
   Cf. SH365+ Oyster culture and fisheries
401          Periodicals, societies, congresses, serial publications
402          Collected works (nonserial)
402.3        Dictionaries and encyclopedias
403          General works, treatises, and textbooks
404          Pictorial works and atlases
405          Popular works
405.2        Juvenile works
405.4        Rare and endangered species
405.43.A-Z   By region or country, A-Z
406          Classification
406.2        Catalogs and collections
406.5        Collection and preservation
406.55       Museums. Exhibitions
406.7        Evolution. Phylogeny. Speciation
Geographical distribution
   For geographic distribution of systematic divisions see QL430.1+
   Physiographic divisions
   Land
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
Invertebrates
Mollusca
Geographical distribution
Physiographic divisions
Marine -- Continued

408.7
Indian Ocean
Topographical divisions
North America
411
General works
413
Canada
United States
414
General works
415.A-Z
By region or state, A-Z
416
Atlantic Coast
417
Pacific Coast
(418)
Pacific islands
see QL428.5
419
Gulf Coast
Latin America
420
General works
421
Mexico
422
Central America (Table Q3)
423
West Indies (Table Q3)
424
South America (Table Q3)
424.5
Atlantic islands (Table Q3)
425
Europe (Table Q3)
426
Asia (Table Q3)
427
Africa (Table Q3)
428
Australia
New Zealand
428.5
Pacific islands (Table Q3)
429
Arctic regions
429.5
Antarctica
429.6
Tropics
Systematic divisions
Aplacophora (Solenogasters)
430.12
General works and orders
430.12.A-Z
By family, A-Z
430.12.P76
Proneomeniidae
430.13
Polyplacophora (Chitons)
By family, A-Z
430.14.A26
Acanthochitonidae
430.14.C47
Chitonidae
430.14.I83
Ischnochitonidae
430.14.M64
Mopaliidae
430.15
Monoplacophora
Cephalopoda
430.2
General works and orders
430.3.A-Z
By family, A-Z
430.3.A73
Architeuthidae
430.3.B3
Bathyteuthidae
430.3.C72
Cranchiidae
430.3.C9
Cycloteuthidae
430.3.E56
Enoplooteuthidae
430.3.G66
Gonatidae
Invertebrates
Mollusca
Systematic divisions
Cephalopoda
By family, A-Z -- Continued

430.3.J68  Joubinitheuthidae
430.3.L8   Loliginidae
430.3.N4   Nautilidae
430.3.O2   Octopodidae (Octopuses)
430.3.O5   Ommastrephidae
430.3.O6   Onychoteuthidae
430.3.S47  Sepiidae
430.3.S49  Sepiolidae (Bobtail squids)
430.3.S65  Spirulidae
430.3.V35  Vampyroteuthidae

Gastropoda (Snails)

430.4  General works and orders
430.5.A-Z  By family, A-Z

Abalones see QL430.5.H34

430.5.A18  Abyssochrysididae
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.A78  Athoracophoridae (Leaf-veined slugs)
430.5.A8   Atlantidae
430.5.A85  Atyidae

Auriculidae see QL430.5.E45

430.5.B37  Batilliariidae
430.5.B58  Bithyniidae
430.5.B73  Bradybaenidae
430.5.B75  Buccinidae
430.5.B8   Bulimulidae
430.5.B84  Bulinidae
430.5.B87  Busyconidae
430.5.C18  Caecidae
430.5.C22  Calyptraeidae
430.5.C25  Camaenidae
430.5.C26  Cancellariidae
430.5.C3   Cassidae
430.5.C35  Cavolinidae
430.5.C38  Cerionidae
430.5.C4   Cerithiidae
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.C43  Cerithiopsidae
430.5.C49  Chilinidae
(430.5.C53)  Chondropomatidae
              see QL430.5.A65
430.5.C56  Chromodorididae
430.5.C57  Clausiliidae
430.5.C6   Clionidae
430.5.C73  Columbellidae
430.5.C75  Conidae
        Cowries see QL430.5.C94
430.5.C82  Cyclophoridae
        Cyclostomidae see QL430.5.P63
        Cylindrellidae see QL430.5.U68
(430.5.C93)  Cymatiidae
              see QL430.5.R35
430.5.C94  Cypraeidae (Cowries)
430.5.D43  Diastomatidae
430.5.D55  Dolabriferidae
430.5.D6   Dorididae
430.5.E45  Ellobiidae
430.5.E48  Elysidae
430.5.E5   Endodontidae
(430.5.E55)  Entoconchidae
              see QL430.5.E9
430.5.E6   Epitoniidae
430.5.E9   Eulimidae
430.5.F2   Fasciolariidae
430.5.F53  Ficidae
430.5.F57  Fissurellidae
430.5.F58  Flabellinidae
430.5.G34  Gadiiniidae
430.5.H34  Haliotidae (Abalones)
430.5.H37  Helicarionidae
430.5.H4   Helicidae
430.5.H45  Helicinidae
430.5.H46  Helminthoglyptidae
        Hermaeidae see QL430.5.S75
430.5.H9   Hydrobiidae
430.5.J3   Janellidae
(430.5.J36)  Janthinidae
              see QL430.5.E6
430.5.J8   Juliidae
430.5.K46  Kentrodorididae
(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
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued
Melaniidae see QL430.5.T45

430.5.M44 Melanopsidae
430.5.M47 Melongenidae
430.5.M57 Mitridae
430.5.M9 Muricidae
430.5.N27 Nacellidae
430.5.N3 Nassariidae
430.5.N35 Naticidae
430.5.N47 Neocyclotidae
430.5.N5 Neritidae
430.5.O5 Olividae
430.5.O73 Oreohelicidae
430.5.O78 Orthalicidae
430.5.P15 Partulidae
430.5.P18 Patelidae
430.5.P2 Personidae
430.5.P23 Phasianellidae
430.5.P25 Philomyidae
430.5.P33 Phyllidiidae
430.5.P35 Phylliroidae
430.5.P37 Physidae
430.5.P46 Planaxidae
430.5.P48 Planorbidae
430.5.P49 Pleurobranchidae
430.5.P5 Pleuroceridae
430.5.P6 Polygyridae
430.5.P63 Pomatiidae
430.5.P64 Pomatiopsidae
430.5.P68 Potamididae
Proserpinidae see QL430.5.H45
430.5.P9 Pupillidae
430.5.P92 Pupinidae
430.5.P95 Pyramidellidae
430.5.R35 Ranellidae
430.5.R45 Rhodopidae
430.5.R48 Rhytididae
430.5.R57 Rissoidae
Scalariidae see QL430.5.E6
430.5.S25 Scissurellidae
430.5.S56 Siphonariidae
430.5.S65 Spiraxidae
(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 Tethyidae
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.T45  Thiaridae
430.5.T63  Tonnidae
430.5.T65  Tornidae
430.5.T67  Tricoliidae
430.5.T7  Tritoniidae
430.5.T75  Trochidae
430.5.T78  Truncatellidae
430.5.T85  Turbinellidae
430.5.T9  Turbinidae
430.5.T95  Turridae
430.5.T96  Turritellidae (Turretsnails, wormsnails)
430.5.U68  Urocryptidae
430.5.U7  Urocyclidae
Vaginulidae see QL430.5.V4
430.5.V34  Valloniidae
430.5.V36  Valvatidae
(430.5.V37)  Vasidae
        see QL430.5.T85
430.5.V385 Velutinidae
430.5.V4  Veronicellidae
(430.5.V65)  Vitronellidae
        see QL430.5.T65
430.5.V7  Viviparidae
430.5.V75  Volutidae
430.5.V77  Volutomitridae
430.5.X46  Xenophoridae
430.5.Z6  Zonitidae

Bivalvia (Lamellibranchia; pelecypoda; clams)
General works and orders
By family, A-Z

430.6
430.7.A-Z
430.7.A34  Amblemidae
430.7.A4  Anatinidae
430.7.A72  Arcidae
430.7.A74  Arcticidae
430.7.A8  Astartidae
430.7.C2  Cardiidae
430.7.C24  Carditidae
430.7.C53  Chamidae
430.7.C67  Corbiculidae
430.7.C69  Corbulidae
430.7.C8  Crassatellidae
    Cyrenidae see QL430.7.C67
430.7.D55  Dimyidae
430.7.D65  Donaciidae
430.7.D8  Dreisseniidae
430.7.G23  Gastrochaenidae
430.7.G55  Glossidae
430.7.G78  Gryphaeidae
430.7.H53  Hiatellidae
430.7.H87  Hyriidae
430.7.L35  Lametiidae
### Invertebrates

#### Mollusca

Systematic divisions
- Bivalvia (Lamellibranchia; pelecypoda; clams)
  - By family, A-Z -- Continued

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#### Arthropoda

- Periodicals, societies, congresses, serial publications
- General works, treatises, and textbooks
- Pictorial works and atlases
- Popular works
- Juvenile works
- Classification
- Catalogs and collections
- Evolution. Speciation
- Study and teaching. Research
- Poisonous arthropods. Dangerous arthropods
Invertebrates
Arthropoda -- Continued

Geographical distribution
For geographical distribution of systematic divisions, see the division below

434.5 General works
434.52 North America (United States and Canada) (Table Q3)
434.53 Mexico, Central America, and West Indies (Table Q3)
434.54 South America (Table Q3)
434.55 Europe (Table Q3)
434.56 Asia (Table Q3)
434.57 Africa (Table Q3)
434.58 Australasia and Indo-Pacific islands (Table Q3)
434.59 Polar regions
434.6 Tropics
434.7 Anatomy and morphology
434.715 Cytology
434.72 Physiology
434.8 Behavior

Crustacea

435.A1 Periodicals, societies, congresses, serial publications
435.A3-Z General works, treatises, and textbooks
436 Pictorial works and atlases
437 Popular works
437.2 Juvenile works
438 Classification
438.2 Catalogs and collections
438.5 Evolution. Phylogeny

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

444.C57 Rhizocephala
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444.C7 General works
444.C72 Calanoida
(444.C722) Caligoida
see QL444.C79
444.C73 Cyclopoida
444.C74 Harpacticoida
444.C75 Lernaepodoida
444.C756 Monstrilloida
444.C76 Notodelphyoida
444.C78 Poecilostomatoida
444.C79 Siphonostomatoida

Entomostraca see QL435+

Malacostraca
444.M3 General works
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)
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Arthropoda
Onychophora (Velvet worms)
Geographical distribution -- Continued

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)
448.47 Pacific islands (Table Q3)
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
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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 Cermatobiidae
449.55.C7 Craterostigmidae
449.55.C78 Cryptopidae
449.55.D5 Dignathodontidae
449.55.E8 Ethopolyidae
449.55.G4 Geophilidae
449.55.G66 Gonibregmatidae
449.55.G68 Gosibiidae
449.55.H4 Henicopidae
449.55.H5 Himantariidae
449.55.L5 Lithobiidae
449.55.M4 Mecistocephalidae
449.55.N4 Neogeophilidae
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Arthropoda
Myriapoda
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Chilopoda (Centipedes)
   By family, A-Z -- Continued

449.55.O7
   Oryidae
449.55.S25
   Schendylidae
449.55.S3
   Scolopendridae
449.55.S37
   Scutigeridae
449.55.S63
   Sogonidae
449.55.S66
   Soniphilidae
449.55.W3
   Watobiidae

Diplopoda (Millipedes)

449.6
   General works and orders
   By family, A-Z
449.65.A-Z
   Andrognathidae
449.65.A6
   Atopetholidae
449.65.A8
   Blaniulidae
449.65.B4
   Cambalidae
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
   Leideridae
449.65.L9
   Lysiopetalidae
449.65.N4
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449.65.O6
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449.65.O95
   Oxydesmidae
449.65.P18
   Pachybolidae
449.65.P22
   Paeromopidae
449.65.P27
   Paradoxosomatidae
449.65.P273
   Paraaululidae
449.65.P42
   Platysmidae
449.65.P427
   Platyrhacidae
449.65.P64
   Polydesmidae
449.65.P648
   Polyxenidae
449.65.P649
   Polyzoniidae
449.65.R4
   Rhinocricidae
449.65.S56
   Siphoniulidae
449.65.S565
   Siphonophoridae
449.65.S64
   Sphaeniodesmidae
449.65.S645
   Sphaerotheridae
449.65.S65
   Spirobolidae
449.65.S655
   Spirostreptidae
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Myriapoda

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By family, A-Z -- Continued

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Stylodesmidae

Synxenidae

Tingupidae

Trichopolydesmidae

Vanhoeffeniidae

Xystodesmidae

Pauropoda

449.7

General works

449.75.A-Z

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Eurypauropodidae

Pauropodidae

Symphyla

449.8

General works

449.85.A-Z

By family, A-Z

Geophilellidae

Scolopendrellidae

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)

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Australasia

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Australia

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New Zealand

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Pacific islands (Table Q3)

453.9

Arctic regions

453.95

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Tropics

Systematic divisions

Acari (Acarina). Mites

458

General works

458.15.A-Z

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458.15.A33

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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
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 Dermayssidae
458.2.D475 Dermoglyphidae
458.2.D56 Diptilomiopidae
458.2.E45 Echimyopodidae
458.2.E6 Epidermoptidae
458.2.E73 Eremaeidae
458.2.E75 Eriophyidae
458.2.E78 Erythraeidae
458.2.E8 Eupodidae
458.2.E84 Eustathiidae
458.2.E9 Eylaidae
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458.2.G4 Glycyphagidae
458.2.H3 Halacaridae
458.2.H38 Hermanniidae
458.2.H4 Heterocheylidae
458.2.H9 Hydrachnidae
458.2.H98 Hydryphantidae
458.2.I9 Ixodidae
458.2.K5 Knemidokoptidae
458.2.L3 Labidocaridae
458.2.L33 Laelapidae
458.2.L44 Leeuwenhoekiiidae
458.2.L54 Limnocharididae
458.2.L58 Listrophoridae
458.2.L67 Lordalycidae
458.2.M3 Macronyssidae
458.2.M53 Microtrombidiidae
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Arachnida (Scorpions; spiders; mites; etc.)
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458.2.N67  
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458.2.O74  
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458.2.P3  
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458.2.P35  
Penthaleidae
458.2.P37  
Phytoptidae
458.2.P4  
Phytoseiidae
458.2.P44  
Pionidae
458.2.P6  
Podapolipodidae
458.2.P65  
Pontarachnidae
458.2.P74  
Proctophyllodidae
458.2.P8  
Psoroptidae
458.2.P85  
Pterolichidae
458.2.P87  
Pterygosomatidae
458.2.P9  
Pyemotidae
458.2.P95  
Pyroglyphidae
458.2.R36  
Raphignathidae
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Rhodacaridae
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Sarcopodidae
458.2.S3  
Scutacaridae
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Sperchonidae
458.2.S75  
Spinturnicidae
458.2.S8  
Stigmaeidae
458.2.S89  
Syringobiidae
458.2.S9  
Syringophilidae
458.2.T3  
Tarsonemidae
458.2.T36  
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458.2.T4  
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458.2.T5  
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458.2.T7  
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458.2.T75  
Trombiculidae
458.2.T76  
Trombidiidae
458.2.U5  
Unionicolidae
458.2.U7  
Uropodidae
458.2.V37  
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458.2.Z4  
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458.3  
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458.32.A-Z  
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458.32.C4  
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458.32.P56  
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458.32.P57  
Phrynidae
458.32.T3  
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  Arachnida (Scorpions; spiders; mites; etc.)
  Systematic divisions
  Araneae (Araneida). Spiders
    Geographical distribution -- Continued
  458.41 North America (United States, Canada, and Greenland) (Table Q3)
  458.412 Mexico, Central America, and West Indies (Table Q3)
  458.413 South America (Table Q3)
  458.4135 Atlantic islands (Table Q3)
  458.414 Europe (Table Q3)
  458.415 Asia (Table Q3)
  458.416 Africa (Table Q3)
  458.4165 Indian Ocean islands (Table Q3)
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      General works
      Australia
      New Zealand
      Pacific islands (Table Q3)
    Polar regions
      General works
      Arctic regions
      Antarctica
      Tropics
  458.42.A-Z By family, A-Z
  458.42.A2 Acanthoctenidae
  458.42.A28 Actinopodidae
  458.42.A3 Agelenidae
  458.42.A4 Amaurobiidae
    Amaurobioidae see QL458.42.A57
  458.42.A45 Ammoxenidae
  458.42.A48 Anapidae
  458.42.A5 Antrodiaetidae
  458.42.A57 Anyphaenidae
  458.42.A7 Araneidae (Orb weavers)
  458.42.A73 Archaeidae
    Arigopidae see QL458.42.A7
    Attidae see QL458.42.S24
  458.42.A8 Atypidae
    Aviculariidae see QL458.42.T5
  458.42.B3 Barychelidae
  458.42.C3 Caponiidae
  458.42.C4 Clubionidae
  458.42.C67 Corinnidae
  458.42.C8 Ctenidae
  458.42.C83 Ctenizidae
  458.42.C93 Cyatholipidae
    Deinopidae see QL458.42.D55
  458.42.D44 Desidae
  458.42.D5 Dictynidae
  458.42.D53 Diguetidae
  458.42.D55 Dinopidae. Deinopidae
  458.42.D56 Dipluridae
  458.42.D9 Dysderidae
  458.42.E7 Eresidae (Velvet spiders)
    Eusparassidae see QL458.42.H48
### Invertebrates

**Arthropoda**

Arachnida (Scorpions; spiders; mites; etc.)

**Systematic divisions**

Araneae (Araneida). Spiders

By family, A-Z -- Continued

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458.52.P46  Phalangodidae
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458.52.S9  Synthetonychidae
458.52.T75  Triaenonychidae
458.52.T76  Trogulidae

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458.55  General works
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462   Collected works (nonserial)
462.3   Dictionaries and encyclopedias
462.4   Terminology, notation, abbreviations
462.5   History
463   General works, treatises, and textbooks
464   Field and laboratory manuals
465   Collection and preservation
466   Pictorial works and atlases
467   Popular works
467.2   Juvenile works
467.8   Rare and endangered species
467.9   Extinct insects
468   Classification, Nomenclature
468.2   Catalogs and collections
468.4   Entomology as a profession. Vocational guidance
468.5   Study and teaching. Research
468.7   Evolution. Phylogeny. Speciation
468.8   Poisonous insects. Dangerous insects
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495.5 Development
496 Behavior. Social life. Instinct
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511 General works, treatises, and textbooks

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514.883 South America (Table Q3)
514.884 Europe (Table Q3)
514.885 Asia (Table Q3)
514.886 Africa (Table Q3)
514.887 Australasia and Indo-Pacific islands (Table Q3)
514.888 Polar regions
514.889 Tropics
514.9.R35 Raphidiidae (Snakeflies)
514.95 Anatomy and morphology
514.96 Physiology

Psocoptera (Corrodentia)

515 General works
515.2.P4 Peripsocidae
515.2.P73 Pseudocaecillidae

Zoraptera

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)
Invertebrates
  Arthropoda
    Insects
    Trichoptera (Caddisflies)
      Geographical distribution -- Continued

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.A55 Anomalopsychidae
518.B4  Beraeidae
518.B7  Brachycentridae
518.C3  Calamoceratidae
518.G6  Goeridae
518.H4  Helicopsyridae
518.H94 Hydropsychidae
518.H95 Hydrotiliidae
518.L48  Leptoceridae
518.L5  Limnephilidae
518.M6  Molannidae
518.O4  Odontoceridae
518.P45 Philopotamidae
518.P47 Phryganeidae
518.P6  Polycentropodidae
518.P8  Psychomyiidae
518.R4  Rhyacophilidae
518.S4  Sericostomatidae
518.X5  Xiphocentronidae
519 Anatomy and morphology
519.2  Physiology

Odonata (Dragonflies, etc.)

520 General works, treatises, and textbooks
  Geographical distribution
    For geographical distribution of systematic divisions see QL520.3.A+

520.15 General works
520.2  North America (United States and Canada) (Table Q3)
520.22 Mexico, Central America, and West Indies (Table Q3)
520.23 South America (Table Q3)
520.24 Europe (Table Q3)
520.25 Asia (Table Q3)
520.26 Africa (Table Q3)
520.27 Australasia and Indo-Pacific islands (Table Q3)
520.28 Polar regions
520.29 Tropics
520.3.A-Z Systematic divisions. By family, A-Z
520.3.A4 Aeshnidae (Darners)
520.3.A5 Agrionidae
520.3.A6 Amphipterygidae
520.3.C3 Calopterygidae
520.3.C4 Chlorocyphidae
520.3.C64 Coenagrionidae (Narrow-winged damselflies)
520.3.C67 Cordulegastridae (Biddies)
Invertebrates
   Arthropoda
   Insects
   Odonata (Dragonflies, etc.)

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

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  Hemiphlebiidae
520.3.L45  Lestidae (Spread-winged damselflies)
520.3.L46  Lestoideidae
520.3.L6   Libellulidae (Skimmers)
520.3.M4   Megapodagrionidae
520.3.P4   Petaluridae (Graybacks)
520.3.P53  Platycnemididae
520.3.P58  Platystictidae
520.3.P6   Polythrictidae
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)
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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
   Capsidae see QL523.M5
523.C6   Cimicidae (Bedbugs, etc.)
523.C64  Colobothristidae
523.C67  Coreidae
523.C7   Corimelaenidae
523.C75  Corixidae (Water boatmen)
523.C9   Cydnidae (Burrower bugs)
Invertebrates
  Arthropoda
    Insects
      Hemiptera (Heteroptera; bugs)
        Systematic divisions. By family, A-Z -- Continued

523.D5  Dipsocoridae
523.D74  Drepanosiphidae
523.D9  Dysodiidae
523.E65  Enicocephalidae
523.G4  Gerridae (Water striders)
523.H4  Hebridae
523.H44  Helotrephidae
      Henicocephalidae see QL523.E65
      Heteroptera see QL521+
      Homoptera see QL525+
523.H93  Hydrometridae
523.H96  Hynocephalidae
523.I83  Isodermidae
523.I85  Isometopidae
523.J6  Joppeciidae
523.L45  Leotichidae
523.L46  Leptopodidae
523.L58  Lividae
523.L9  Lygaeidae
523.M3  Macroveliidae
523.M4  Mesoveliidae
523.M47  Microphysidae
523.M5  Miridae (Plantbugs)
523.N3  Nabidae (Damsel bugs)
523.N4  Naucoridae (Creeping waterbugs)
523.N46  Neididae
523.N5  Nipidae (Water scorpions)
523.N53  Nerthridae
523.N6  Notonectidae (Back swimmers)
523.O3  Ochteridae
523.P5  Pentatomidae (Stinkbugs)
523.P53  Phymatidae (Ambushbugs)
523.P55  Piesmidae
523.P57  Plataspidae
523.P576  Ploiairiidae
523.P62  Podopidae
523.P64  Polycenidae
523.P9  Pyrrhocorididae
523.R4  Reduviidae (Assassin bugs)
523.R5  Rhopalidae
523.S25  Salididae (Shorebugs)
523.S3  Schizopteridae
523.S4  Scutelleridae
523.T3  Tahitocorididae
523.T4  Termatophylidae
523.T43  Termitaphilidae
523.T48  Thaumastotheriidae
523.T5  Tingidae (Lacebugs)
523.V45  Velidae
523.V46  Velocipedidae
524  Anatomy and morphology
Invertebrates
Arthropoda
Insects

Hemiptera (Heteroptera; bugs) -- Continued

Physiology

Homoptera (Aphids; cicadas, etc.)

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL527.A+

General works

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

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

South America (Table Q3)

Europe (Table Q3)

Asia (Table Q3)

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Australia

New Zealand

Pacific islands (Table Q3)

Arctic regions

Antarctica

Tropics

Systematic divisions. By family, A-Z

Acanaloniidae

Achilidae

Achilixiidae

Adelgidae

Aethialoniidae

Agallidae

Aleurodidae see QL527.A5

Aleyrodidae (Whiteflies)

Aphididae (Aphids or plant lice)

Aphrophoridae

Apiomorphidae

Areopodidae see QL527.D44

Asterolecaniidae (Pit scales)

Bythoscoptidae

Callaphididae

Cercopidae (Spittlebugs)

Cerococcidae

Chermidae see QL527.P88

Cicadellidae (Leafhoppers)

Cicadidae (Cicadas)

Cixiidae

Clastopteridae

Coccidae (Soft scales)

Coelostomidiidae

Conchaspididae

Cylindrococcidae

Dactylopiidae (Cochineal insects)

Delphacidae

Derbidae

Diaspididae (Armored scales)

Dictyopharidae

Eriococcidae

Eriosomatidae
Invertebrates
  Arthropoda
    Insects
      Homoptera (Aphids; cicadas, etc.)
      Systematic divisions. By family, A-Z -- Continued

527.E9  Euacanthidae
527.E97  Eurybrachidae
527.F4  Flatidae
527.F9  Fulgoridae
    Gyponidae see QL527.C49
527.I8  Issidae
    Jassidae see QL527.C49
527.K4  Kermesidae
527.K44  Kerridae (Lac scales)
527.K5  Kinnaridae
527.K6  Koebeliidae
    Lacciferidae see QL527.K44
(527.L4)  Lecaniidae
    see QL527.C6
527.L44  Ledridae
527.L6  Lophopidae
527.M3  Machaerotidae
527.M32  Macropsidae
527.M37  Margarodidae
527.M4  Meenoplidae
527.M45  Membracidae (Treehoppers)
    Monophlebidae see QL527.M37
527.N5  Nirvaniidae
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  Ricianiidae
527.S5  Signoretiidae
527.S8  Stenocotidae
    Tachardiidae see QL527.K44
    Tettigellidae see QL527.C49
527.T43  Tettigometridae
527.T5  Thaumastoscopidae
527.T6  Tomaspididae
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+
Invertebrates
  Arthropoda
    Insects
      Isoptera (Termites)
  Geographical distribution -- Continued

529.15  General works
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529.22  Mexico, Central America, and West Indies (Table Q3)
529.23  South America (Table Q3)
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529.26  Africa (Table Q3)
529.27  Australasia and Indo-Pacific islands (Table Q3)
529.28  Polar regions
529.29  Tropics
529.3.A-Z  Systematic divisions. By family, A-Z
  529.3.H6  Hodotermitidae
  529.3.K35  Kalotermitidae
  529.3.M3  Mastotermitidae
  529.3.R4  Rhinotermitidae
  529.3.S47  Serritermitidae
  529.3.T4  Termitidae
  529.3.T5  Termopsidae
529.4  Anatomy and morphology
529.42  Physiology
530  Plecoptera (Stoneflies)
   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)
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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  Perlidae
  530.3.P47  Perlodidae
  530.3.P48  Perlodidae
  530.3.P8  Pteronarcyidae
  530.3.T3  Taeniopterygidae
530.4  Anatomy and morphology
530.42  Physiology
531  Diptera (Flies)
   General works, treatises, and textbooks
Invertebrates
Arthropoda
Insects

Diptera (Flies) -- Continued

532 Pictorial works and atlases
533 Popular works
533.2 Juvenile works
534 Classification
534.2 Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL536+

535 General works
535.1 North America (United States and Canada) (Table Q3)
535.2 Mexico, Central America, and West Indies (Table Q3)
535.3 South America (Table Q3)
535.4 Europe (Table Q3)
535.5 Asia (Table Q3)
535.6 Africa (Table Q3)
535.7 Australia
535.75 New Zealand
535.8 Pacific Islands (Table Q3)
535.9 Arctic regions
535.95 Antarctica
535.96 Tropics

Systematic divisions. By family

536 Culicidae (Mosquitoes)
537.A-Z Other families, A-Z
537.A3 Acroceridae
537.A4 Agromyzidae (Leafminerflies)
537.A45 Allactoneuridae
537.A5 Anthomyiidae
537.A53 Anthomyzidae
537.A6 Apioceridae
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 Ceroplattidae
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
Invertebrates
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Diptera (Flies)

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

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)
Cylindrotomidae
537.C9  Deuterophlebiidae
537.D47  Dexiidae
537.D48  Diadocidiidae
537.D52  Diastatidae
537.D53  Diopsidae
537.D56  Ditomyiidae
537.D58  Dixidae
537.D59  Dolichopodidae (Long-legged flies)
537.D76  Drosophilidae (Vinegarflies)
537.D79  Dryomyzidae
537.E4  Empididae (Danceflies)
537.E7  Ephyridae
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  Lygistorrhiniidae
537.M3  Macrouridae (Euphrosynidae)
537.M35  Manotidae
537.M4  Megamerinidae
Metopiidae see QL537.S25
537.M43  Micrpezidae
537.M5  Milichiidae
537.M6  Mormotomiidae
537.M8  Muscidae (Houseflies, etc.)
537.M9  Mycetobiidae
537.M92  Mycetophilidae (Fungivoridae)
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Insects
Diptera (Flies)

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

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

537.S9  Syrphidae (Flowerflies; hoverflies)
537.T25  Tabanidae (Deerflies)
537.T28  Tachinidae (Larvaevoridae)
537.T3  Tachiniscidae
537.T35  Tanyderidae
537.T357  Tanypezidae
537.T42  Tephritidae
537.T447  Termitoxeniidae
537.T448  Tethinidae
537.T45  Thaumaleidae
537.T458  Thaumatoxeniidae
537.T47  Therevidae
537.T49  Thyreophoridae
537.T6  Tipulidae (Craneflies)
537.T7  Trichoceridae (Winter craneflies)
537.T75  Trixoscelidae
537.T42  Trypetidae see QL537.T42
537.M43  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

For geographical distribution of systematic divisions see QL539.3.A+

539.15  General works
539.2  North America (United States and Canada) (Table Q3)
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539.3.A-Z  Systematic divisions. By family, A-Z
539.3.A5  Anisembiidae
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539.3.E4  Embiidae
539.3.N6  Notoligotomidae
539.3.O44  Oligembiidae
539.3.O46  Oligotomidae
539.3.T4  Teratemiidae

539.4  Anatomy and morphology
539.42  Physiology

Mallophaga (Chewing lice)

540  General works, treatises, and textbooks

For geographical distribution of systematic divisions see QL540.3.A+
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    Mallophaga (Chewing lice)
      Geographical distribution -- Continued

540.15  General works
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540.27  Australasia and Indo-Pacific islands (Table Q3)
540.28  Polar regions
540.29  Tropics
540.3.A-Z  Systematic divisions. By family, A-Z
  540.3.B6  Boopiidae
  540.3.D3  Dasyonygidae
  540.3.G9  Gyropidae
  540.3.H4  Heptapsogastriidae
  540.3.L3  Laemobothriidae
  540.3.M4  Menoponidae
  540.3.N4  Nesiotinidae
  540.3.P4  Philopteridae
  540.3.R5  Ricinidae
  540.3.T7  Trichodectidae
  540.3.T72 Trichophilopteridae
  540.3.T74 Trimenoponidae
540.4   Anatomy and morphology
540.42  Physiology
      Lepidoptera (Butterflies; moths)
  541   Periodicals, societies, congresses, serial publications
  541.5  Dictionaries and encyclopedias
  542   General works, treatises, and textbooks
  543   Pictorial works and atlases
  544   Popular works
  544.2  Juvenile works
  544.6  Butterfly attracting
          Including butterfly gardens and gardening
  545   Classification
  545.2  Catalogs and collections
      Geographical distribution
          For geographical distribution of systematic divisions see QL561.A+
  546   General works
          North America
  548   General works
          United States
  549   General works
  551.A-Z  By region or state, A-Z
  552   Canada
  553   Mexico, Central America, and West Indies (Table Q3)
  554   South America (Table Q3)
  555   Europe (Table Q3)
  556   Asia (Table Q3)
  557   Africa (Table Q3)
  557.5  Indian Ocean islands (Table Q3)
Invertebrates
   Arthropoda
      Insects
         Lepidoptera (Butterflies; moths)
            Geographical distribution -- Continued

558
   Australia
558.5
   New Zealand
559
   Pacific islands (Table Q3)
560
   Arctic regions
560.5
   Antarctica
560.6
   Tropics
561.A-Z
   Systematic divisions. By family, A-Z
561.A25
   Acraeidae
561.A254
   Acrolepiidae
561.A256
   Acrolophidae
561.A3
   Adelidae
   Aegeriidae see QL561.S47
561.A4
   Agaristidae
561.A46
   Agonoxenidae
561.A48
   Alucitidae
561.A5
   Amathusiidae
561.A57
   Amphitheridae
   Amydiidae see QL561.T55
561.A65
   Anomologidae
561.A67
   Anthelidae
561.A7
   Apopropgonidae
561.A8
   Arctidae (Tiger moths)
561.A84
   Argyresthiidae
561.A865
   Arrhenophandiae
561.A88
   Ashinagidae
561.A93
   Axiidae
561.B4
   Blastobasidae
561.B6
   Bombycidae (Silkworm moths)
561.B68
   Brachodidae
561.B7
   Brahmaeidae
561.C24
   Callidulidae
561.C3
   Carposinidae
561.C35
   Castniidae
561.C4
   Cecidosetidae
561.C42
   Cercophonidae
561.C44
   Charideidae
561.C46
   Chlidanotidae
561.C47
   Choreutidae (Metalmark moths)
561.C48
   Chrysopolomidae
561.C5
   Citheroniidae (Royal moths)
561.C57
   Cochylidae
561.C58
   Coleophoridae (Casebearer moths)
561.C59
   Cosmopterigidae
561.C6
   Cossidae (Carpenterworm moths)
561.C73
   Crambidae
561.C8
   Clyneuchidae
561.C9
   Cyclotornidae
561.D25
   Dalceridae (Slug caterpillar moths; jewel caterpillar moths)
(561.D3)
   Danaidae
   see QL561.N9
561.D5
   Dipotidae
Invertebrates
  Arthropoda
    Insects
      Lepidoptera (Butterflies; moths)
        Systematic divisions. By family, A-Z -- Continued

561.D6  Douglassiidae
561.D7  Drepanidae
561.E4  Elachistidae
561.E5  Endromidae
561.E74  Epermeniidae
561.E75  Epicopeiidae
561.E754  Epimartidae
561.E757  Epipaschiidae
561.E758  Epiplecidae
561.E759  Epipyropidae
561.E77  Erebididae
561.E8  Eriococidae
561.E85  Ethmidae
(561.E9)  Eucleidae
   see QL561.L54
561.E94  Eupterotidae
561.G3  Galleriidae (Wax moths)
561.G4  Gelechiidae
561.G6  Geometridae
561.G65  Glyphipterygidae
561.G7  Gracillariidae (Leafblotch miners)
561.H42  Heliconiidae
561.H44  Heliodinidae
561.H448  Heliozelidae (Shield bearers)
561.H47  Hepialidae
561.H5  Hesperiidae (Skippers)
561.H53  Heterogynidae
561.H9  Hyblaeidae
561.H97  Hyposmocomidae
561.I45  Immidae
561.I5  Incurvariiidae
561.L3  Lasiocampidae (Tent-caterpillar moths)
561.L37  Lecithoceridae
561.L4  Lemoniidae
561.L5  Libytheidae
561.L54  Limacodidae (Slug caterpillar moths)
   Lithosiidae see QL561.A8
561.L8  Lycaenidae
561.L9  Lymantriidae (Tussock moths)
561.L95  Lyonetiidae
561.M4  Megalopygidae (Flannel moths)
561.M42  Megathymidae (Skippers)
561.M44  Metachandidae
561.M44  Metachandidae
561.M48  Micropterygidae
561.M5  Mimallonidae
561.M55  Mnesarchaeidae
561.M6  Morphidae
561.N38  Neopseustidae
561.N4  Nepticulidae
561.N7  Noctuidae (Owlet moths; underwings)
Invertebrates
Arthropoda
Insects
Lepidoptera (Butterflies; moths)
Systematic divisions. By family, A-Z -- Continued

561.N74
Nolidae
561.N8
Notodontidae
561.N87
Nyctemeridae
561.N9
Nymphalidae (Brushfooted butterflies; milkweed butterflies)
561.O26
Ochsenheimeriidae
561.O43
Oecophoridae
561.N74
Oinophiliidae see QL561.T55
561.O6
Olethreutidae
561.O7
Opistegidae
561.N87
Orenodidae see QL561.A48
561.O9
Oxychirotidae
561.O93
Oxytenididae
561.P17
Palaeosetidae
561.P18
Palaephatidae
561.P2
Papilionidae (Swallowtail butterflies)
561.P48
Philoconistidae
561.P5
Pieridae
561.P55
Plutellidae (Diamondback moths)
561.P57
Prodoxidae (Yucca moths)
561.P58
Prototheoridae
561.P6
Psychidae (Bagworm moths)
561.P8
Pterophoridae (Plume moths)
561.P9
Pterothysanidae
561.P96
Pyralidae
561.R3
Ratardidae
561.R53
Riodinidae
561.R56
Saturniidae (Giant silkworm moths)
561.S3
Satyridae
561.S35
Sesiaidae
561.S44
Sematuridae
561.S47
Stenomormidae see QL561.T55
561.S7
Sphingidae (Sphinx moths)
561.S8
Stenomidae
561.S87
Strepsimorphaeidae
561.T46
Thyatiridae
561.T48
Thryridiidae
561.T55
Tineidae (Clothes moths)
561.T56
Tineodidae
561.T58
Tischeriidae
561.T8
Tortricidae (Leaf-roller moths)
561.U7
Uraniidae
561.X9
Xylorictidae
561.Y7
Yponomeutidae (Ermine moths)
561.Z9
Zygaenidae (Leaf-skeletonizer moths)
562
Anatomy and morphology
562.2
Physiology
Invertebrates
  Arthropoda
    Insects
      Lepidoptera (Butterflies; moths) -- Continued
        562.4 Behavior. Social life. Instinct
        562.6 Ecology
      Hymenoptera (Ants; bees; wasps; etc.)
        Cf. SF521+ Bee culture
        563 General works, treatises, and textbooks
        564 Pictorial works and atlases
        565 Popular works
        565.2 Juvenile works
        566 Classification
        566.2 Catalogs and collections

Geographical distribution
  For geographical distribution of systematic divisions see QL568.A+
  567 General works
    567.1 North America (United States and Canada) (Table Q3)
    567.2 Mexico, Central America, and West Indies (Table Q3)
    567.3 South America (Table Q3)
    567.4 Europe (Table Q3)
    567.5 Asia (Table Q3)
    567.6 Africa (Table Q3)
    567.7 Australia
    567.75 New Zealand
    567.8 Pacific islands (Table Q3)
    567.9 Arctic regions
    567.95 Antarctica
    567.96 Tropics
      568.A17 Acorduleceridae
      568.A23 Agaontidae (Fig wasps)
      568.A24 Agriotypidae
      568.A3 Alienidae
      568.A34 Alysiidae
      568.A344 Alyssonidae
      568.A36 Ampulicidae
      568.A38 Anacharitidae
      568.A4 Andrenidae
      568.A48 Anthoboscidae
      568.A53 Anthophoridae
      568.A55 Aphelinidae
      568.A57 Aphidiidae
      568.A6 Apidae (Bumblebees; honeybees; stingless bees)
      568.A7 Apterogynidae
      568.A77 Argidae
      568.A8 Aspiceridae
      568.A9 Aulacidae
      568.B36 Belytidae
        Bembicidae see QL568.S7
      568.B4 Bethylidae
      568.B5 Blasticotomidae
      568.B8 Braconidae
      568.B83 Bradynobaenidae
      568.C373 Cephidae (Stem sawflies)
      568.C375 Ceraphronidae
Invertebrates
  Arthropoda
  Insects

  Hymenoptera (Ants; bees; wasps; etc.)

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

  568.C377  Cerceridae
  568.C4    Chalcididae
  568.C44   Charipidae
  568.C47   Chrysididae (Cuckoo wasps)
  568.C5    Cimbicidae
  568.C55   Cleonymidae
  568.C56   Cleptidae
  568.C6    Colletidae
  568.C7    Crabronidae
  568.C9    Cynipidae (Gall wasps)
  568.D44   Diapriidae
  568.D47   Dimorphidae
  568.D5    Diprionidae (Conifer sawflies)
  568.D7    Dryinidae
  568.E4    Elasmidae
  568.E5    Embolemidae
  568.E6    Encyrtidae
  568.E75   Eucharididae
  568.E77   Eucoilidae
  568.E8    Eulophidae
  568.E84   Eumenidae
  568.E845  Eupelmidae
  568.E85   Eurytomidae
  568.E9    Evaniidae (Ensign wasps)
  568.F47   Fideliidae
  568.F5    Figitidae
  568.F7    Formicidae (Ants)
  568.G3    Gasteruptionidae
  568.G6    Gorytidae
  568.H3    Halictidae (Sweat bees)
  568.H4    Heloridae
  568.I15   Ibaliidae
  568.I2    Ichneumonidae
  568.L3    Larridae
  568.L47   Leptogoenidae
  568.L49   Leucospididae
  568.L56   Liopteridae
  (568.M3)  Masaridae
              see QL568.V5
  568.M4    Megachilidae (Leaf-cutting bees)
  568.M44   Megalodontidae
  568.M45   Megalyridae
  (568.M456) Meliponidae
              see QL568.A6
  568.M46   Melittidae
  568.M466  Mellinidae
  568.M48   Methocidae
  568.M55   Miscogastridae
  568.M56   Miscophidae
  568.M6    Monomachidae
  568.M8    Mutiliidae (Velvet ants)
Invertebrates
   Arthropoda
      Insects
         Hymenoptera (Ants; bees; wasps; etc.)
            Systematic divisions. By family, A-Z -- Continued

| 568.M94 | Mymaridae (Fairyflies)            |
| 568.M944| Mymarommatidae                    |
| 568.M97 | Myrmosidae                         |
| 568.N9  | Nyssonidae                         |
| 568.O25 | Oberthuerellidae                   |
| 568.O74 | Ormyridae                          |
| 568.O78 | Orussidae (Parasitic wood wasps)   |
|         | Oryssidae see QL568.O78           |
| 568.O8  | Oxaeidae                           |
| 568.O9  | Oxybelidae                         |
| 568.P3  | Pamphiliidae (Web-spinning sawflies)|
| 568.P43 | Pecedinidae                        |
|         | Pemphredonidae see QL568.S7        |
| 568.P474| Pergidae                           |
| 568.P475| Perilampidae                       |
| 568.P5  | Philanthidae                       |
| 568.P55 | Platygastridae                     |
| 568.P58 | Plumariidae                        |
| 568.P6  | Pompilidae (Spider wasps)          |
| 568.P9  | Proctotrupidae                     |
| 568.P94 | Pteromalidae                       |
| 568.P945| Pterostigmatae                     |
| 568.R4  | Rhopalosomatidae                   |
| 568.R6  | Roproniidae                        |
| 568.S2  | Sapygidae                          |
| 568.S3  | Scellionidae                       |
| 568.S34 | Sclerogibbidae                     |
| 568.S38 | Scoliidae                          |
| 568.S5  | Sierolomorphidae                   |
| 568.S57 | Siricidae (Horntails)              |
| 568.S7  | Sphecidae                          |
| 568.S8  | Stephanidae                        |
| 568.S85 | Stizidae                           |
| 568.S96 | Syntexidae                         |
| 568.T3  | Tenthredinidae (Sawflies)          |
| 568.T34 | Tetracampidae                      |
| 568.T4  | Thynnidae                          |
| 568.T5  | Tiphidae                           |
| 568.T6  | Torymidae                          |
| 568.T7  | Trichogrammatidae                  |
| 568.T74 | Trigonotalidae                     |
| 568.T79 | Trypoxylidae                       |
| 568.V3  | Vanhorniidae                       |
| 568.V5  | Vespidae (Hornets, etc.)           |
| 568.X5  | Xiphydiidae (Wood wasps)           |
| 568.X7  | Xyelidae                           |
| 569     | Anatomy and morphology             |
| 569.2   | Physiology                         |
| 569.4   | Behavior. Social life. Instinct    |
|         | Anoplura (Sucking lice)            |
| 570     | General works, treatises, and textbooks |
Invertebrates
- Arthropoda
- Insects

Anoplura (Sucking lice) -- Continued

Geographical distribution

For geographical distribution of systematic divisions see QL570.3.A+

570.15
General works

570.2
North America (United States and Canada) (Table Q3)

570.22
Mexico, Central America, and West Indies (Table Q3)

570.23
South America (Table Q3)

570.24
Europe (Table Q3)

570.25
Asia (Table Q3)

570.26
Africa (Table Q3)

570.27
Australasia and Indo-Pacific islands (Table Q3)

570.28
Polar regions (Table Q3)

570.29
Tropics (Table Q3)

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

570.3.E3
Echinophthiriiide

570.3.H34
Haematomyzidae

570.3.H37
Haematopinidae

570.3.H38
Haematopinoididae

570.3.H64
Hoplopleuridae

570.3.N4
Neolignathidae

570.3.P4
Pediculidae

570.3.P5
Phthiriiidae

Coleoptera (Beetles)

571
Periodicals, societies, congresses, serial publications

572
Collected works (nonserial)

573
General works, treatises, and textbooks

575
Pictorial works and atlases

576
Popular works

576.2
Juvenile works

577
Classification

577.2
Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL596.A+

578
General works

580
America

581
North America

583
General works

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

585
Canada

585.5
General works

586
Mexico

587
Central America (Table Q3)

588
West Indies (Table Q3)

589
South America (Table Q3)

591
Europe (Table Q3)

592
Asia (Table Q3)

593
Africa (Table Q3)

594
Australia

594.5
New Zealand

595
Pacific islands (Table Q3)
Invertebrates
  Arthropoda
  Insects
  Coleoptera (Beetles)
  Geographical distribution -- Continued

  595.2 Arctic regions
  595.4 Antarctica
  595.6 Tropics


  596.A23 Acanthoceridae
  596.A27 Aculognathidae
  596.A3 Aderidae
  596.A37 Aegialididae
  596.A4 Aglycyderidae
  596.A42 Alleculidae
  596.A43 Alticidae
  596.A45 Amphizoidae
  596.A5 Anobiidae
  596.A62 Anthicidae (Antlike flower beetles)
  596.A63 Anthribidae (Fungus weevils)
  596.A64 Aphodiidae
  596.A8 Atractoceridae
  596.A83 Atelabidae
  596.B5 Bostrichidae (False powerpost beetles)
  596.B52 Bothrideridae
  596.B54 Brachypiteridae
  596.B58 Brachypteridae
  596.B6 Brathinidae
  596.B65 Brentidae
  596.B7 Bruchidae (Seed beetles)
  596.B8 Buprestidae (Metallic wood borers)
  596.B97 Byrrhidae
  596.B98 Byturidae (Fruitworm beetles)
  596.C15 Cantharidae (Soldier beetles)
  596.C2 Carabidae (Ground beetles)
  596.C5 Cassididae see QL596.C5
  596.C28 Catopochrotidae
  596.C3 Cebrionidae
  596.C37 Cephaloidae
  596.C4 Cerambycidae
  596.C415 Ceratocanthidae
  596.C42 Cerophytidae
  596.C43 Cetoniidae
  596.C45 Chapuisiidae
  596.C46 Chelonariidae
  596.C48 Chlamisididae
  596.C5 Chrysomelidae (Leaf beetles)
  596.C56 Cincindelidae (Tiger beetles)
  596.C6 Ciidae
  596.C613 Cistelidae
  596.C617 Clambidae
  596.C618 Clavigeridae
  596.C62 Cleridae (Checkered beetles)
  596.C64 Clytridae
  596.C65 Coccinellidae (Lady beetles)
  596.C66 Colydiidae. Colydiinae (Cylindrical bark beetles)
Invertebrates
  Arthropoda
    Insects
      Coleoptera (Beetles)
      Systematic divisions. By family, A-Z -- Continued

596.C667   Corylophidae
596.C67    Corynetidae
596.C68    Cossyphodidae
596.C7     Crioceridae
596.C77    Cryptocephalidae
596.C78    Cryptophagidae
596.C8     Cucujidae (Flat-bark beetles)
596.C85    Cupidae
596.C9     Curculionidae (Snout beetles)
596.C93    Cyathoceridae
596.C933   Cybocephalidae
596.C94    Cyladidae
596.D37    Dasytidae
596.D375   Dasytidae
596.D4     Dermestidae
596.D42    Derodontidae
596.D57    Dipyllidae
596.D58    Discolomidae
596.D59    Disteniidae
596.D6     Donaciidae
596.D67    Drilidae
596.D7     Dryopidae
596.D85    Dynastidae
596.D9     Dytiscidae (Predaceous diving beetles)
596.E3     Ectrephidae
596.E38    Elacatidae
596.E4     Elateridae (Click beetles)
596.E45    Elmidae
596.E5     Endomychidae
596.E7     Erotylidae
596.E76    Euchiridae
596.E77    Eucinetidae
596.E8     Eucnemidae
596.E84    Euglenidae
596.E85    Eumolpidae
596.E87    Eurystethidae
596.G3     Galerucidae
596.G47    Georyssidae
596.G48    Geotrupidae
596.G5     Glaphyridae
596.G6     Gnostidae
596.G8     Gyropterae (Whirligig beetles)
596.H2     Haliplidae
596.H38    Helodidae
596.H4     Helotidae
596.H43    Hemipepidae
596.H45    Heteroceridae
596.H48    Hispidae
596.H5     Histeridae (Hister beetles)
596.H78    Hybosoridae
596.H79    Hydraenidae
Invertebrates
  Arthropoda
    Insects
      Coleoptera (Beetles)
        Systematic divisions. By family, A-Z -- Continued

596.H8  Hydrophilidae (Water scavenger beetles)
596.H85 Hydroscapheidae
596.H9  Hygrobiidae
596.H95 Hypocephalidae
596.I7  Iridae
596.J3  Jacobsoniidae
596.L23 Lagriidae
596.L25 Lamiidae
596.L27 Lamprosomatidae
596.L28 Lampyridae (Fireflies)
596.L29 Languriidae
596.L3  Lathridiidae
596.L35 Leiodidae (Round fungus beetles)
596.L4  Leptinidae
596.L43 Leptodiridae
596.L55 Limnichidae
596.L58 Limulodidae
596.L8  Lucanidae (Stag beetles)
596.L9  Lycidae (Netwinged beetles)
596.L92 Lyctidae (Powderpost beetles)
596.L94 Lyxmxylidae (Timber beetles)
596.M2  Malachiidae
596.M3  Megalopodidae
596.M34 Megascelidae
      Melasidae see QL596.E8
596.M38 Meloidae (Blister beetles)
596.M4  Melolonthidae (Cockchafers)
596.M43 Melyridae
596.M47 Micromalthidae
596.M5  Micropeplidae
596.M53 Monoedidae
      Monommommatidae see QL596.Z66
596.M57 Monotomidae
596.M6  Mordellidae (Tumbling flower beetles)
596.M8  Murmidiidae
596.M9  Mycetaeidae
596.M92 Mycetophagidae (Hairy fungus beetles)
596.N4  Nemonychidae
596.N54 Nilionidae
596.N57 Niponiidae
596.N58 Nitidulidae (Sap beetles)
596.N6  Nosodendridae
596.O25 Ochodaeidae
596.O4  Oedemeridae
596.O67 Orphnidae
596.O7  Orthoperidae
      Ostomatidae see QL596.T8
596.P13 Pachypodidae
596.P17 Parandridae
596.P2  Passalidae
596.P25 Passandridae
Invertebrates
Arthropoda
Insects
Coleoptera (Beetles)

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

596.P3  Pedilidae
596.P38  Petriidae
596.P4  Phaenocephalidae
596.P42  Phaenomeridae
596.P46  Phalacridae (Shining fungus beetles)
596.P47  Phenogodidae (Glowworms)
596.P5  Plastoceridae
596.P6  Platypodidae
596.P62  Platypyllidae
596.P63  Pleocomidae
596.P7  Prionidae
596.P75  Proterhinidae
596.P8  Pselaphidae
596.P815  Psephenidae
596.P83  Ptiliidae
596.P85  Ptinidae (Spider beetles)
596.P96  Pyrochroidae
596.P98  Phthidae
596.R4  Rhipiceridae
596.R485  Rhipiphoridae
596.R5  Rhizophagidae
596.R57  Rhysodidae
596.R8  Rutelidae
596.S23  Sagridae
596.S28  Scaphidiidae
596.S3  Scarabaeidae (Scarabs)
596.S35  Scolytidae (Bark beetles)
596.S353  Scolytoplatypodidae
596.S38  Scaptiidae
596.S4  Scydmaenidae
596.S45  Serropalpidae
596.S49  Silvanidae
596.S5  Silphidae (Carrion beetles)
596.S53  Sinodendridae
596.S6  Smicripidae
596.S65  Sphaeriidae
596.S66  Sphaeritidae
596.S68  Sphaerosomatidae
596.S7  Sphindidae
596.S75  Staphylinidae (Rove beetles)
596.S9  Synteliidae
596.T16  Telegeusidae
596.T2  Tenebrionidae (Darkling beetles)
596.T27  Tetratomidae
596.T35  Thorictidae
596.T4  Throscidae
596.T7  Trichiidae
596.T75  Trichoptyrgiidae see QL596.P83
596.T78  Tricenotomidae
596.T8  Trogidae
596.T8  Trogositidae
Invertebrates
Arthropoda
Insects
Coleoptera (Beetles)
   Systematic divisions. By family, A-Z -- Continued
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614 Periodicals, societies, congresses, serial publications
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614.7 Dictionaries and encyclopedias

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618.6 Collection and preservation. Fish mounting

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618.65 Fish surveys

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Cf. QL637.2 Antarctic Ocean

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<td>Hemiodontidae</td>
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<td>638.H46</td>
<td>Hemiramphidae (Halfbeaks)</td>
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<td>Hepsetidae</td>
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<td>638.H49</td>
<td>Hexagrammidae (Greenlings)</td>
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<tr>
<td>638.H54</td>
<td>Himantolophidae (Footballfishes)</td>
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<td>638.H56</td>
<td>Hiodontidae (Mooneyes)</td>
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<td>638.H64</td>
<td>Holocentridae (Squirrelfishes)</td>
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<td>(638.H66)</td>
<td>Homalopteridae</td>
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<td>see QL638.B153</td>
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<td>638.H67</td>
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<td>Hypothyridae</td>
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<td>Icelidae</td>
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<td>638.I23</td>
<td>Icosteidae (Ragfishes)</td>
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<td>638.I3</td>
<td>Ictaluridae (Freshwater catfishes)</td>
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<td>Idiacanthidae</td>
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<td>638.I4</td>
<td>Indostomidae</td>
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638.I6
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638.I86
  Isonidae
638.I88
  Istiophoridae (Billfishes)
638.J4
  Jenynsiidae
638.K3
  Kasidoridae
638.K5
  Kneriidae
638.K6
  Korsogasteridae
638.K7
  Kraemeridae
638.K8
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638.K87
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638.K9
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638.L115
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638.L12
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638.L2
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638.L24
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638.L26
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638.L28
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638.L3
  Lebiasinidae
638.L35
  Leiognathidae
638.L37
  Lepidosirenidae
638.L4
  Lepisosteidae (Gars)
638.L47
  Leptoscopidae
638.L48
  Lethrinidae
638.L5
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638.L55
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638.L57
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638.L6
  Lobotidae (Tripletails)
638.L75
  Lophiidae (Goosefishes)
638.L77
  Lophotidae (Crestfishes)
638.L785
  Loricariidae (Armored catfishes)
638.L8
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638.L9
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638.L95
  Luvaridae (Louvars)
638.M13
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638.M16
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638.M165
  Macrorhamphosidae
638.M2
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638.M22
  Macruricyttidae
638.M24
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638.M246
  Malapteruridae
638.M28
  Mastacembelidae
638.M33
  Megalopidae (Tarpon)
638.M34
  Melamphaeidae
638.M35
  Melanocetidae
  Melanostomiataeidae see QL638.M3573
638.M3573
  Melanostomiidae
638.M358
  Melanotaeniidae
638.M37
  Menidae
638.M4
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638.M5
  Microdesmidae (Wormfishes)
  Microstomidae see QL638.B25
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638.M57 Mirapinnidae
638.M6 Mochokidae
638.M64 Molidae (Molas)
638.M645 Monacanthidae
638.M65 Monocentridae
638.M653 Monodactylidae
638.M654 Monognathidae
638.M67 Moridae
638.M675 Moringuidae (Spaghetti eels)
638.M676 Mormyridae
638.M678 Moronidae
638.M8 Mugilidae (Mullets)
(638.M84) Mugiloididae
  see QL638.P613
638.M85 Mullidae (Goatfishes)
638.M87 Muraenidae (Pike congers)
638.M875 Muraenidae (Morays)
638.M876 Muraenolepididae
638.M9 Myctophidae (Lanternfishes)
638.M97 Myrocongridae
638.N25 Nandidae
638.N3 Neenchelyidae
638.N33 Nematistiiidae
638.N34 Nemichthiidae (Snipe eels)
638.N347 Nemipteridae
638.N36 Neoceratiidae
638.N38 Neoscopelidae
638.N387 Neostethidae
638.N4 Nettastomatidae
638.N5 Nomeidae
638.N57 Normanichthyidae
638.N58 Notacanthidae (Spiny eels)
638.N586 Notogaptidae
638.N5867 Notopteridae
638.N5873 Nototheniidae
638.N6 Nototheniidae
   Novumbridae see QL638.U5
638.O2 Odacidae
638.O23 Odontobutidae
638.O3 Ogcocephalidae (Batfishes)
638.O4 Olyridae
638.O45 Omosudidae
638.O5 Oneirodidae
638.O633 Ophichthidae (Snake eels)
638.O634 Ophicleididae
638.O637 Ophidiidae (Cusk eels)
638.O65 Opisthognathidae (Jawfishes)
638.O657 Opisthoproctidae (Spookfishes)
638.O67 Oplegnathidae
638.O7 Oreosomatidae
638.O78 Oryziatidae
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638.O84 Osmeridae (Smelts)
638.O87 Osphronemidae
638.O88 Osteoglossidae
638.O887 Ostraciontidae
638.O9 Owstoniidae
Oxudercidae see QL638.G7
638.P254 Pangasidae
638.P258 Pantodontidae
638.P3 Paralepididae
638.P313 Paralicthysiidae (Sand flounders)
638.P315 Parazenidae
638.P316 Parodontidae
638.P318 Pataecidae
638.P32 Pegasidae
638.P34 Pempheridae (Sweepers)
638.P35 Pentacerotidae (Armorheads)
638.P357 Penatpodidae
638.P358 Percichthysiidae
638.P4 Percidae (Perches; darters)
638.P464 Percophididae (Flatheads)
638.P468 Percopsidae (TROUT-perches)
638.P47 Peronedyidae
638.P5 Phalloceristidae
638.P55 Pholidichthysiidae
638.P56 Pholididae (Gunnels)
638.P57 Phractolaemidae
638.P58 Phycidae
638.P6 Pimelodidae
638.P613 Pinguipedidae (Sandperches)
638.P62 Platyccephalidae
638.P63 Platyctriidae
638.P64 Platyglossidae
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 Pomacanthidae (Marine angelfishes)
638.P77 Pomacentridae (Damselfishes)
(638.P772) Pomadasysidae (Grunts)
see QL638.H23
638.P778 Pomatomidae (Bluefishes)
638.P785 Priacanthidae (Bigeyes)
638.P786 Prochilodontidae
638.P788 Profundulidae (Middle American killifishes)
638.P8 Psettodidae
638.P84 Pseudochromidae
638.P844 Pseudogrammidae
Pseudoplesiopidae see QL638.P84
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638.P88   Psychrolutidae
638.P9    Ptilichthyidae (Quillfishes)
          Pygidiidae see QL638.T76
638.P97   Pyramodontidae
638.R3    Rachycentridae (Cobias)
638.R4    Regalecidae (Oarfishes)
638.R48   Retropinnidae
638.R5    Rhamphichthyidae
638.R55   Rhinoprenidae
638.R59   Rhyacichthyidae
638.R65   Rondeletiidae
638.R68   Rosauridae
638.S15   Saccopharyngidae
638.S18   Salangidae
638.S2    Salmonidae (Salmon; trout; whitefishes)
638.S3    Scaridae (Parrotfishes)
638.S32   Scatophagidae (Scats)
638.S334  Schilbeidae
638.S335  Schindleriidae
638.S34   Sciaenidae (Drums)
638.S347  Scomberesocidae (Sauries)
638.S35   Scombridae (Tuna; mackerel)
638.S374  Scopelarchidae (Pearleyes)
          Scopelosauridae see QL638.N5873
638.S38   Scophthalmidae
638.S42   Scorpaenidae (Scorpionfishes)
638.S45   Scytalinidae (Graveldivers)
          Searsidae (Tubeshoulders)
          see QL638.P63
638.S48   Serranidae (Sea basses)
(638.S483)
          Serrasalmidae
          see QL638.C5
638.S485  Serrivomeridae
638.S5    Siganidae
638.S54   Sillaginidae
638.S6    Siluridae (Old World catfishes)
638.S64   Simenchelyidae
638.S68   Sisoridae
638.S7    Soleidae (Soles)
638.S73   Solenostomidae
638.S74   Sparidae (Porgies)
638.S77   Sphyraenidae (Barracudas)
638.S785  Stephanoberycidae
638.S8    Sternoptychidae
638.S83   Sternopygidae (Glass knife-fishes)
638.S84   Stichaeidae (Pricklebacks)
638.S86   Stomiatidae
638.S87   Stromateidae (Butterfishes)
638.S88   Stylephoridae (Tube-eyes)
          Synancejidae see QL638.S42
638.S892  Synaphobranchidae
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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 Tetraridae
638.T6 Toxotidae
638.T68 Trachichthyidae
638.T685 Trachinidae
638.T69 Trachipteridae (Ribbonfishes)
638.T695 Triacanthidae (Spikefishes)
638.T7 Trichiuridae (Cutlassfishes)
638.T73 Trichodontidae (Sandfishes)
638.T76 Trichomycteridae
638.T78 Trichonotidae
638.T8 Triglidae (Searobins)
638.T85 Triodontidae
638.T87 Tripterygiidae
638.T95 Trypauchenidae
638.U5 Umbridae (Mudminnows)
638.U7 Uranoscopidae (Stargazers)
638.V4 Veliferidae
638.X4 Xenocephalidae
638.X45 Xenoceroida (False morays)
638.X5 Xiphidae (Swordfishes)
638.Z28 Zanclidae (Moorish idol)
638.Z3 Zaniolepididae
638.Z36 Zaproridae (Prowfishes)
638.Z4 Zeidae (Dories)
638.Z6 Zoarcidae (Eelpouts)
Agnatha (Jawless fishes)
638.12 General works
   Myxini
638.13 General works
   Myxiniformes (Hagfishes)
638.14 General works
638.15.A-Z By family, A-Z
   (638.15.B35)
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     see QL638.15.M9
638.15.M9 Myxinidae
   (638.15.P37)
   Paramyxinidae
     see QL638.15.M9
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638.18 General works
   Petromyzontiformes (Lampreys)
638.2 General works
638.25.A-Z By family, A-Z
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   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+
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638.6
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   Chimaeriformes
638.7
   General works
638.75.A-Z
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638.75.C4
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638.77
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638.78.A-Z
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638.78.P75
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638.8
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638.85.A-Z
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638.85.A5
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638.85.A7
   Arhynchobatidae
638.85.D3
   Dasyatidae (Stingrays)
638.85.G9
   Gymnuridae
638.85.H48
   Hexatrygonidae (Sixgill stingrays)
638.85.M6
   Mobulidae (Manta rays)
638.85.M9
   Myliobatidae (Eagle rays)
638.85.P6
   Potamotrygonidae (Freshwater stingrays)
(638.85.P7)
   Pristidae (Sawfishes)
   see QL638.78.P75
638.85.R3
   Rajidae (Skates)
638.85.R4
   Rhinobatidae (Guitarfishes)
   Rhinopteridae see QL638.85.M9
638.85.R48
   Rhynchobatidae
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638.87
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638.875.A-Z
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638.875.T6
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638.9
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638.93
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638.94.A-Z
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   Class species, genera, and families in QL638.95
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638.94.C37
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            Hexanchiformes
            Lamniformes
            Orectolobiformes (Carpet sharks)
            Pristiophoriformes see QL638.95.P7
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          Carcharhinidae (Requiem sharks)
            Carcharidae see QL638.95.O3
          Centrophoridae (Gulper sharks)
          Cetorhinidae (Basking shark)
          Chlamydoselachidae (Frilled sharks)
          Dalatiidae (Kitefin sharks; sleeper sharks)
          Echinorhinidae see QL638.95.S84
          Etmopteridae (Lantern sharks)
          Ginglymostomatidae (Nurse sharks)
          Heterodontidae (Bullhead sharks)
          Hexanchidae (Cow sharks)
          Isuridae see QL638.95.L3
          Lamnidae (Mackerel sharks)
          Megachasmidae (Megamouth shark)
          Mitsukurinidae (Goblin shark)
          Odontaspidae (Sand tigers)
          Orectolobidae (Wobbegong sharks)
          Pristiophoridae (Saw sharks)
          Pseudotriakidae (False cat shark)
          Rhincodontidae (Whale shark)
          Scapanorhynchidae
          Scyllorinidae (Cat sharks)
          Somniosidae see QL638.95.D3
          Sphyrniidae (Hammerhead sharks)
          Squalidae (Dogfish sharks)
          Squatinidae (Angel sharks)
          Stegostomatidae (Zebra shark)
          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
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639.25 Development. Eggs and larvae
639.3 Behavior
639.4 Locomotion
639.5 Migration. Diadromy
    Cf. SH156.8 Fish tagging
639.6 Vertical distribution
    Including diel vertical migration
639.8 Ecology
Parasites see SH175
Reptiles and amphibians
640 Periodicals, societies, congresses, serial publications
640.5 Collected works (nonserial)
640.7 Dictionaries and encyclopedias
641 General works, treatises, and textbooks
643 Pictorial works and atlases
644 Popular works
644.2 Juvenile works
    Rare and endangered species
644.7 General works
644.73.A-Z By region or country, A-Z
Extinct reptiles and/or amphibians
644.8 General works
644.83.A-Z By region or country, A-Z
645 Classification. Nomenclature
645.2 Catalogs and collections
Evolution
645.3 General works
645.4 Speciation
645.5 Variation
Study and teaching. Research
    Including census taking, banding, marking, tagging, etc., and general works on amphibian and
    reptile watching and viewing sites
645.6 General works
645.63.A-Z By region or country, A-Z
645.65 Collection and preservation
645.7 Dangerous reptiles
Geographical distribution
    Class here works on the reptiles and/or amphibians of a specific region
    For geographical distribution of systematic divisions see QL666.A+
648 General works
North America
651 General works
    United States
652 General works
653.A-Z By region or state, A-Z
Canada
654 General works
654.2.A-Z By region, province, or territory, A-Z
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654.5 General works
655 Mexico
    Including Yucatán Peninsula
656 Central America (Table Q3)
656.5 West Indies (Table Q3)
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  657  South America (Table Q3)
  658  Europe (Table Q3)
  661  Asia (Table Q3)
  662  Africa (Table Q3)
  663  Australia
  663.5  New Zealand
  664  Pacific islands (Table Q3)
  664.2  Arctic regions
  664.4  Antarctica
  664.6  Tropics
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Reptiles
  665  General works, treatises, and textbooks
  Juvenile works see QL644.2
Physiographic divisions
  Aquatic reptiles. Water reptiles
  665.3  General works
  665.5  Marine reptiles. Sea reptiles
Geographical distribution see QL648+
666.A-Z  By order and family, A-Z
  Amphibia 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  Kinosternidae
  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
  Amphibia
  666.L192  General works
  666.L193  Amphibiae
  666.L194  Bipedidae
  Lacertilia (Sauria; lizards)
  666.L2  General works
(666.L21-.L2196)  Geographical distribution
    see QL648+
  666.L223  Agamidae
  Amphibiae see QL666.L192+
  666.L225  Anelytropsidae

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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 Pygopodidae
666.L27 Scincidae (Skinks)
666.L28 Sphaerodactylidae see QL666.L245
666.L285 Teiidae
666.L287 Tropiduridae
666.L29 Varanidae (Monitor lizards)
666.L293 Xantusiidae
666.L295 Xenosauridae

Serpentes (Ophidia; snakes)

666.O6 General works
666.O62 Acrochordidae (Wart snakes; file snakes)
666.O625 Aniliidae (False coral snakes; coral pipe snakes)
666.O626 Anomalepididae (Primitive blind snakes; dawn blind snakes)
666.O6265 Anomochilidae (Dwarf pipe snakes)
666.O627 Atractaspididae (Mole vipers)
666.O63 Boidae (Boas)
666.O633 Bolyeriidae (Round Island boas)
666.O636 Colubridae
666.O638 Crotalidae see QL666.O69
666.O64 Elapidae (Cobras; coral snakes; sea snakes)
(666.O645) Hydrophiidae
see QL666.O64
666.O647 Lamprophiidae
666.O65 Leptotyphlopidae (Slender blind snakes)
666.O66 Loxocemidae (Mexican burrowing pythons)
666.O67 Pythonidae
666.O68 Tropidophiidae (Dwarf boas)
666.O685 Typhlopidae (Blind snakes)
666.O688 Uropeltidae (Shield-tailed snakes)
666.O69 Viperidae (Vipers and pit vipers)
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Xenopeltidae (Sunbeam snakes)
Rhynchocephalia
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Sphenodontidae (Tuatara)
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Ichthyophiidae
Rhinatrematidae
Scolecomorphidae
Uraeotyphlidae
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Ambystomatidae (Mole salamanders)
Cryptobranchidae (Giant salamanders)
Dicamptodontidae
Hynobiidae
Plethodontidae (Lungless salamanders)
Proteidae
Rhyacotritonidae
Salamandridae (Newts)
Sirenidae
Ecaudata (Anura; Salientia; frogs; toads)
General works
Alytidae
Ascaphidae (Tailed frogs)
Atelopodidae
see QL666.E227
Bomninatoridae
Brevicipitidae
Bufonidae (Toads)
Centrolenidae (Glass frogs)
Ceratobatrachidae
Craugastoridae
Dendrobatidae
Dicroglossidae
Discoglossidae
see QL666.E214
Eleutherodactylidae
Hemiphractidae
Hylidae (Tree frogs)
Hyperoliidae
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Amphibians
By order and family, A-Z
Ecaudata (Anura; Salientia; frogs; toads) -- Continued

668.E255    Leiopelmatidae
668.E257    Leptodactylidae (Robber frogs)
668.E259    Mantellidae
668.E26     Microhylidae (Narrow-mouthed toads)
668.E2615   Myobatrachidae
668.E262    Pelobatidae (Eurasian spadefoot toads)
668.E2626   Pelodryadidae
668.E263    Pelodytidae
668.E264    Phrynoderidae
668.E265    Pipidae
668.E268    Pseudeidae
668.E27     Ranidae (Frogs)
668.E274    Rhacophoridae
668.E275    Rhinophrynidae
668.E33     Scaphiopodidae (North American spadefoot toads)

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

Birds
Periodicals, societies, congresses, serial publications
672.2     Dictionaries and encyclopedias
Communication of ornithological information
672.5     Ornithological literature
672.6     Language. Authorship

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

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
676.56.A-Z United States
676.57.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
Chordates. Vertebrates

Birds -- Continued

677  Classification. Nomenclature
677.2  Catalogs and collections
677.3  Evolution
677.4  Population dynamics
  For mortality see QL698.25
677.5  Study and teaching. Research
  Including census taking, bird banding, and general works on bird watching and birding sites
677.7  Collection and preservation
677.75  Dangerous birds
677.78  Birds of prey. Raptors
  Cf. QL696.F3+ Falconiformes
  Cf. QL696.S8+ Strigiformes
677.79.A-Z  Other types of birds, A-Z
677.79.C38  Cavity-nesting birds
677.79.E85  Exotic birds
677.79.F55  Flightless birds
677.79.F67  Forest birds
  Game birds
  see SF508+ Animal culture; SK311+ Hunting
677.79.G73  Grassland birds
677.79.I58  Introduced birds
677.79.M68  Mountain birds
677.79.N63  Nocturnal birds
677.79.O58  Ornamental birds see SF512+
677.79.P37  Parasitic birds
677.79.P57  Piscivorous birds
677.79.Q57  Talking birds see SF462.8
677.79.R57  Water birds see QL678.5+
677.79.W57  Waterfowl
677.8  Aviaries. Bird exhibitions
677.8  Geographical distribution
  For geographical distribution of systematic divisions see QL696.A+
678  General works
678.5  Physiographic divisions
  For birds of a particular region or country or off the coast of a particular region or country see QL680+
678.52  Aquatic birds. Water birds
  For waterfowl see SF510.W3 Animal culture; SK331+ Hunting
678.52  Marine birds. Sea birds
678.52  General works
678.55  By region
678.55  Atlantic Ocean
678.6  Indian Ocean
678.65  Pacific Ocean
679  Topographical divisions
679  Zone divisions
  e.g. Palaearctic region
680  America
  General works
  North America and United States
681  General works
  United States
682  General works
Chordates. Vertebrates
Birds
Geographical distribution
  Topographical divisions
  America
    North America and United States
    United States -- Continued
  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
  695.5
    Tropics
  696.A-Z
    Systematic divisions. By order and family, A-Z
    Accipitriformes see QL696.F3+
    Alciformes see QL696.C4+
    Anseriformes
  696.A5
    General works
  696.A52
    Anatidae (Ducks; geese; swans)
  696.A53
    Anhimidae (Screamers)
    Apodiformes
  696.A55
    General works
  696.A552
    Apodidae (Swifts)
  696.A554
    Hemiprocnidae (Crested swifts)
  696.A558
    Trochilidae (Hummingbirds)
    Apterygiformes
  696.A6
    General works
  696.A63
    Apterygidae (Kiwis)
    Ardeiformes see QL696.C5+
    Caprimulgiformes
  696.C2
    General works
  696.C22
    Aegothelidae (Owlet frogmouths)
  696.C23
    Caprimulgidae (Goatsuckers)
  696.C25
    Nycitibiidae (Potoos)
  696.C26
    Podargidae (Frogmouths)
Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Caprimulgiformes -- Continued

696.C28
Steatornithidae (Oilbirds)

Casuariiformes

696.C3
General works

696.C33
Casuariidae (Cassowaries)

696.C34
Dromaiidae (Emus)

Charadriiformes

696.C4
General works

696.C42
Alcidae (Auks; auklets; murres)

696.C428
Burhinidae (Thick-knees)

696.C43
Charadriidae (Plovers; turnstones; surfbirds)

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)

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)

Cocygys see QL696.C8+

Coliiformes

696.C59
General works

696.C593
Coliidae (Coles)

Columbiformes

696.C6
General works

696.C63
Columbidae (Pigeons; doves)

696.C66
Pteroclididae (Sandgrouses)

696.C67
Raphidae (Dodos; solitaires)

Coraciiformes

696.C7
General works

696.C72
Alcedinidae (Kingfishers)

696.C725
Brachypteraciidae (Groundrollers)

696.C729
Bucerotidae (Hornbills)

696.C73
Coraciidae (Rollers)

696.C74
Leptosomatidae (Cuckoo rollers)
Chordates. Vertebrates
  
  Birds
  
  Systematic divisions. By order and family, A-Z
  
  Coraciiformes -- Continued
  
  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 (Plain-tain-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 (Mega-podes)
  (696.G254) Meleagrididae (Turkeys)
  see QL696.G27
  696.G258 Numididae (Guineafowl)
  696.G259 Odontophoridae (New World quails)
  696.G26 Opisthocomidae (Hoatzins)
  696.G27 Phasianidae (Pheasants, Old World quails, grouse, partridges, peafowls, turkeys)
  (696.G285) Tetraonidae (Grouse)
  see QL696.G27
  
  Gaviiformes
  
  696.G3 General works
  696.G33 Gaviidae (Loons)
  
  Gruiformes
  
  696.G8 General works
  696.G82 Aramidae (Limpkins)
  696.G827 Cariamidae (Seriemas)
  696.G83 Eurypgidae (Sun-bitterns)
  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
Chordates. Vertebrates

Birds

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

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.P2 Bombycillidae (Waxwings)

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

696.P225 Campephagidae (Cuckoo shrikes)

696.P228 Catamblyrhynchidae (Plushcapped finches)

696.P23 Certhiidae (Creepers)

696.P234 Chamaeidae (Wrentits)

696.P2344 Chloropseidae (Leafbirds)

696.P235 Cinclidae (Dippers)

696.P2354 Climacteridae (Australasian treecreepers)

696.P236 Coerebidae (Honeycreepers)

696.P2365 Conopophagidae (Antpipits)

696.P2367 Corvidae (Crows; magpies; jays)

696.P2368 Cotingidae (Cotingas)

(696.P237) Cracticidae

see QL696.P216

696.P239 Cyclarhidae (Peppershrikes)

696.P24 Dendrocolaptidae (Woodhewers)

696.P242 Dicaeidae (Flowerpeckers)

696.P2427 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)

Ireniidae 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)
Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Passeriformes -- Continued

696.P255 Muscicapidae (Old World flycatchers)
696.P257 Nectariniidae (Sunbirds)
696.P2585 Oriolidae (Old World flycatchers)
696.P259 Oxyruncidae (Sharpbills)
696.P2595 Pachycephalidae
696.P26 Paradisaeidae (Birds of paradise)
696.P2612 Paradoxornithidae (Parrotbills; suthoras)
696.P2615 Paridae (Titmice; chickadees)
(696.P2618) Parulidae

see QL696.P2438

696.P262 Passeridae
696.P2625 Philepittidae (Asities; false sunbirds)
696.P2629 Phytotomidae (Plantcutters)
696.P263 Pipridae (Manakins)
696.P2634 Pittidae (Pittas)
696.P264 Ploceidae (Weaverbirds)
696.P265 Prionopidae (Weaverbirds)
696.P266 Prunellidae (Accentors)
696.P267 Ptilogenatidae (Silky flycatchers)
696.P2675 Ptilonorhynchidae (Bowerbirds)
696.P268 Pycnonotidae (Bulbuls)
696.P27 Regulidae (Kinglets)
696.P272 Remizidae
696.P273 Rhinocryptidae (Tapaculos)
696.P274 Rhipiduridae (Fantails)
696.P275 Sittidae (Nuthatches)
696.P278 Sturnidae (Starlings)
696.P279 Sylviiidae (Old World warblers)
696.P28 Tersinidae (Swallow tanagers)
696.P2816 Thamnophilidae (Typical antbirds)
696.P282 Thraupidae (Tanagers)
696.P285 Timaliidae (Babblers)
696.P287 Troglodytidae (Wrens)
696.P288 Turdidae (Thrushes)
696.P289 Tyrannidae (Tyrant flycatchers)
696.P29 Vangidae (Vangas)
696.P294 Vireolaniidae (Shrike vireos)
696.P2945 Vireonidae (Vireos)
696.P296 Zeledoniidae (Wrenthrushes)
696.P298 Zosteropidae (White-eyes)

Pelecaniformes

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

Phoenicopteriformes see QL696.C56

Piciformes

696.P5 General works
696.P52 Bucconidae (Puffbirds)
Chordates. Vertebrates

Birds

Systematic divisions. By order and family, A-Z

Piciformes -- Continued

696.P53
Capitonidae (Barbets)

696.P54
Galbulidae (Jacamars)

696.P55
Indicatoridae (Honeyguides)

696.P56
Picidae (Woodpeckers)

696.P57
Ramphastidae (Toucans)

Podicipediformes

696.P58
General works

696.P586
Podicipedidae (Grebes)

Procellariformes

696.P6
General works

696.P63
Diomedeidae (Albatrosses)

696.P64
Hydrobatidae (Storm petrels)

696.P66
Pelecanoididae (Diving petrels)

696.P665
Procellariidae (Shearwaters; fulmars)

696.P7
Psittaciformes (Parrots)

Puffinidae see QL696.P665

Pygopodes see QL696.P586

Pygopodes (Gaviidae) see QL696.G33

Rhamphastidae see QL696.P57

Rheiformes

696.R37
General works

696.R4
Rheidae (Rheas)

Scansores

see QL671+

Sphenisciformes

696.S47
General works

696.S473
Spheniscidae (Penguins)

Steganopodes see QL696.P4+

Strigiformes

696.S8
General works

696.S83
Strigidae (Owls)

696.S85
Tytonidae (Barn owls)

Struthioniformes

696.S87
General works

696.S9
Struthionidae (Ostriches)

Tinamiformes

696.T37
General works

696.T4
Tinamidae (Tinamous)

Trochili see QL696.A558

Trogoniformes

696.T67
General works

696.T7
Trogonidae (Trogons)

Upupiformes

696.U6
General works

696.U66
Phoeniculidae (Wood hoopoes)

696.U68
Upupidae (Hoopoes)

696.5
Genetics

Anatomy and morphology

697
General works

697.4
Feathers. Plumage

698
Physiology

698.2
Reproduction
Chordates. Vertebrates
   Birds -- Continued

698.25  Mortality
698.26  Effect of roads
698.3   Behavior
   Including social life and instinct
   Eggs and nests see QL675
   Bird banding see QL677.5
698.4   Food
698.5   Song. Vocalization
698.7   Flight
698.8   Navigation
698.85  Orientation
698.9   Migration
698.95  Ecology
699     Miscellany and curiosa
   For birds of the Bible see BS664

Mammals

700   Periodicals, societies, congresses, serial publications
701   Collected works (nonserial)
701.2  Dictionaries and encyclopedias
   Communication of information
701.5  General works
701.6  Information services
701.8  Computer network resources
   Including the Internet
702   Mammalogical literature
703   General works, treatises, and textbooks
704   Compendes
705   Pictorial works and atlases
706   Popular works
   For popular works on domestic animals see SF41
706.2  Juvenile works
706.4  Study and teaching. Research
706.5.A-Z  Special topics, A-Z
706.5.D38  Data processing
   Rare and endangered species
706.8   General works
706.83.A-Z  By region or country, A-Z
707   Extinct mammals
708   Classification. Nomenclature
708.2   Catalogs and collections
708.4   Collection and preservation
708.5   Evolution. Speciation
708.6   Population dynamics
   Geographical distribution
   For geographical distribution of systematic divisions see QL737.A+
708.7   General works
   Physiographic divisions
   Aquatic
    General works
    Marine
713   General works
713.2   By region
   For marine mammals of a particular region or country or off the coast of a particular region or country see QL715+
Chordates. Vertebrates
  Mammals
    Geographical distribution
    Physiographic divisions
      Aquatic
      Marine
        By region -- Continued
          Atlantic Ocean

713.25 General works
713.28 North Atlantic Ocean
713.35 Pacific Ocean

Topographical divisions
  North America
  715 General works
    United States
  717 General works
  719.A-Z By region or state, A-Z
    Canada
  721 General works
    721.5.A-Z By region or province, A-Z
      Latin America
  721.8 General works
  722 Mexico
  723 Central America (Table Q3)
  724 West Indies (Table Q3)
  725 South America (Table Q3)

Europe
  726 General works
  727 Great Britain
  728.A-Z Other regions or countries, A-Z
  729 Asia (Table Q3)
  731 Africa (Table Q3)
  732 Indian Ocean islands (Table Q3)

Australasia
  732.8 General works
    Australia
  733 General works
  733.5.A-Z By state, territory, or region, A-Z
    New Zealand
  734 Pacific islands (Table Q3)
  736 Arctic regions. Greenland
  736.2 Antarctica
  736.5 Tropics

  Afrosoricida. Tenrecomorpha
    737.A35 General works
    737.A352 Chrysochloridae (Golden moles)
    737.A357 Tenrecidae (Tenrecs)
  Carnivora
    737.C2 General works
    737.C214 Ailuridae (Red panda)
    737.C22 Canidae (Dogs)
      For domestic dogs see SF421+
    737.C23 Felidae (Cats)
      For domestic cats see SF441+
    737.C235 Herpestidae (Mongooses)
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Carnivora -- Continued

737.C24  Hyaeinidae (Hyenas)
737.C248  Mephitidae (Skunks)
737.C25  Mustelidae (Weasels; badgers; otters)
737.C26  Procyonidae (Raccoons)
737.C27  Ursidae (Bears; giant panda)
737.C28  Viverridae (Civets, etc.)

Cetacea

737.C4  General works
    Mysticeti (Baleen whales)
        General works
    737.C42  Balaenidae (Right whales)
    737.C423  Balaenopteridae (Rorquals)
    737.C424  Eschrichtiidae (Gray whales)
    737.C425  Neobalaenidae

Odontoceti (Toothed whales)

737.C43  General works
    Delphinidae (Dolphins)
    Iniidae see QL737.C436
    Lipotidae see QL737.C436
    737.C433  Monodontidae (Narwhal; white whale)
    737.C434  Phocoenidae (Porpoises)
    737.C435  Physeteridae (Sperm whales)
    737.C436  Platanistidae (River dolphins)
    Pontoporiidae see QL737.C436
    Stenidae see QL737.C432
    737.C438  Ziphiidae (Beaked whales)

Chiroptera

737.C5  General works
    Craseonycteridae
    737.C513  Desmodontidae (Vampires)
    737.C525  Emballonuridae (Sac-winged bats)
    737.C53  Furipteridae (Smoky bats)
    737.C533  Hipposideridae (Old World leaf-nosed bats)
    737.C535  Megadermatidae (False vampires)
    737.C54  Molossidae (Free-tailed bats)
    737.C543  Mormoopidae
    737.C545  Mystacinidae (New Zealand short-tailed bats)
    737.C55  Myzopodidae (Old World sucker-footed bats)
    737.C555  Natalidae (Funnel-eared bats)
    737.C56  Noctilionidae (Fisherman bats)
    737.C565  Nycteridae (Slit-faced bats)
    737.C57  Phyllostomidae (American leaf-nosed bats)
    737.C575  Pteropodidae (Old World fruit bats)
    737.C58  Rhinolophidae (Horseshoe bats)
    737.C585  Rhinopomatidae (Mouse-tailed bats)
    737.C59  Thyropteridae (Disk-winged bats)
    737.C595  Vespertilionidae

Dermoptera

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

Edentata. Xenarthra

737.E2  General works
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z

Edentata. Xenarthra -- Continued

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

Erinaceomorpha

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

Eulipotyphla see QL737.S7+

Hyracoidea

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

Insectivores

737.I5   General works
(737.I52) Chrysochloridae
         see QL737.A352
(737.I53) Erinaceidae
         see QL737.E753
(737.I54) Macroscelidae (Elephant shrews)
         see QL737.M242
(737.I545) Potamogalidae
         QL737.S73
(737.I55) Solenodontidae
         see QL737.S74
(737.I56) Soricidae
         see QL737.S75
(737.I57) Talpidae
         see QL737.S76
(737.I58) Tenrecidae
         see QL737.A357

Lagomorpha

737.L3   General works
737.L32  Leporidae (Rabbits; hares)
737.L33  Ochotonidae (Pikas)

Macroscelidea

737.M24  General works
737.M242 Macroscelidae (Elephant shrews)

Marsupialia. Marsupials

737.M3   General works
Dasyuromorphia

737.M325 General works
737.M33  Dasyuridae (Marsupial mice, Marsupial cats)
737.M335 Myrmecobiidae (Numbat)
737.M336 Thylacinidae (Thylacine)

Didelphimorphia

737.M337 General works
737.M34  Didelphidae (American opossums)

Diprotodontia

737.M345 General works
737.M346 Acrobatidae
737.M347 Burramyidae (Pygmy possums)
737.M348 Hypsiprymnodontidae (Rat-kangaroos)
          Cf. QL737.M386 Potoroidae
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Marsupialia
   Diprotodontia -- Continued
573.35    Macropodidae (Kangaroos, wallabies)
573.373    Petauridae
573.38    Phalangeridae (Phalangers)
573.384    Phascolarctidae (Koalas)
573.386    Potoroidae (Bettongs, potoroos, rat-kangaroos)
   Cf. 573.348 Hypsiprymnodontidae
573.387    Pseudocheiridae
573.3875    Tarsipedidae
573.39    Vombatidae (Wombats)
Microbiotheria
573.43    General works
573.435    Microbiotheriidae
Notoryctemorphia
573.44    General works
573.445    Notoryctidae (Marsupial moles)
Paucituberculata
573.46    General works
573.463    Caenolestidae (Rat opossums)
Peramelemorphia (Bandicoots)
573.47    General works
573.475    Peramelidae
573.476    Peroryctidae
   see 573.475
573.478    Thylacomyidae (Bilbies)
Monotremata
573.7    General works
573.72    Ornithorhynchidae (Platypus)
573.73    Tachyglossidae (Echidnas)
Pholidota
573.8    General works
573.82    Odobenidae (Walrus)
573.83    Otariidae (Eared seals)
573.84    Phocidae (Seals)
Primates
573.9    General works
573.915    Atelidae (Howler monkeys; muriquis; spider monkeys, woolly monkeys)
(573.917)    Callimiconidae
   see 573.925
(573.92)    Callitrichidae
   see 573.925
573.925    Cebidae (Marmosets; tamarins; squirrel monkeys, capuchin monkeys)
573.93    Cercopithecidae (Old World monkeys)
573.933    Cheirogaleidae
573.935    Daubentoniidae (Aye-ayes)
573.937    Galagonidae (Galagos)
573.94    Hominidae (Great apes: chimpanzees; gorillas; orangutans)
   For humans see GN49+
573.943    Hylobatidae (Lesser apes: gibbons; siamang)
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Primates -- Continued

737.P945
Indriidae
737.P95
Lemuridae (Large lemurs)
737.P955
Lorisidae (Lorises; pottos)
737.P957
Nyctipithecidae (Night monkeys)
737.P959
Pithecidae (Sakis; titis; uakaris)
(737.P96)
Pongidae (Apes)
see QL737.P94+
737.P965
Tarsiidae (Tarsiers)
(737.P968)
Tupaiidae (Tree shrews)
see QL737.S254

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

Rodentia
737.R6
General works
737.R62
Abrocomidae
737.R623
Agoutidae (Pacas)
737.R624
Anomaluridae (Scaly-tailed squirrels)
737.R626
Aplodontidae (Mountain beavers)
737.R628
Bathyergidae (African mole rats)
737.R63
Capromyidae (Hutias)
737.R632
Castoridae (Beavers)
737.R634
Caviidae (Cavies)
737.R636
Chinchillidae (Chinchillas)
(737.R638)
Cricetidae (New World rats and mice)
see QL737.R666
737.R64
Ctenodactylidae (Gundis)
737.R642
Ctenomyidae (Tucu-tucos)
737.R644
Dasyproctidae (Agoutis; acouchis)
737.R646
Dinomyidae (Pacarana)
737.R648
Dipodidae (Jerboas; birch mice; jumping mice)
737.R65
Echimyidae (Spiny rats)
737.R652
Erethizontidae (New World porcupines)
737.R654
Geomyidae (Pocket gophers)
737.R656
Gliridae (Dormice)
737.R66
Heteromyidae (Pocket mice; kangaroo rats)
737.R662
Hydrochaeridae (Capybara)
737.R664
Hystricidae (Old World porcupine)
737.R666
Muridae (Mice; rats; voles; lemmings; gerbils; hamsters)
737.R668
Myocastoridae (Coypu; nutria)
737.R67
Octodontidae
737.R672
Pedetidae (Springhares)
737.R674
Pedromuridae
(737.R676)
Platacanthomyidae
see QL737.R666
(737.R678)
Rhizomyidae
see QL737.R666
737.R68
Sciuridae (Squirrels)
737.R682
Seleviniidae (Desert dormice)
737.R684
Spalacidae
see QL737.R666
737.R686
Thryonomyidae (Cane rats)
Chordates. Vertebrates

Mammals

Systematic divisions. By order and family, A-Z

Rodentia -- Continued

Zapodidae

see QL737.R648

Scandentia

737.S25
General works

737.S254
Tupaiidae (Tree shrews)

Sirenia

737.S6
General works

737.S62
Dugongidae (Dugongs)

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)

Ungulata

737.U4
General works

Artiodactyla (Even-toed ungulates)

737.U5
General works

737.U52
Antilocapridae (Pronghorn)

737.U53
Bovidae

For domestic cattle, sheep, and goats see SF1+

737.U54
Ceramidae (Camels)

737.U55
Cervidae (Deer)

737.U56
Giraffidae

737.U57
Hippopotamidae (Hippopotami)

737.U575
Moschidae (Musk deer)

737.U58
Suidae (Old World pigs)

For domestic swine see SF391+

737.U59
Tayassuidae (Peccaries)

737.U595
Tragulidae (Chevrotains)

Perissodactyla (Odd-toed ungulates)

737.U6
General works

737.U62
Equidae (Horses)

For domestic horses see SF277+

737.U63
Rhinocerotidae (Rhinoceroses)

737.U64
Tapiridae (Tapirs)

Xenarthra see QL737.E2+

738
Miscellany and curiosa

738.5
Genetics

739
Anatomy and morphology

For anatomy of domestic animals see SF761+

Cf. QL801+ Comparative anatomy

739.15
Cytology

Physiology

For physiology of domestic animals see SF768+

Cf. QP1+ Animal physiology

739.2
General works

739.23
Reproduction
Chordates. Vertebrates

Mammals -- Continued

739.25
Age determination

739.3
Behavior

739.5
General works

739.8
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

750
Periodicals, societies, congresses, serial publications

750.3
Dictionaries and encyclopedias

750.5
History

751
General works, treatises, and textbooks

Cf. QH540+ General and animal ecology

Cf. SF1+ Animal culture

751.5
Juvenile works

751.6
Addresses, essays, lectures

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

751.65.D37
Data processing

751.65.M3
Mathematical models

751.65.M32
Mathematics

751.65.S55
Simulation methods

751.65.S73
Statistical methods

751.7
Laboratory manuals

Special topics

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

752
Animal populations

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

Cf. QL607.6 Vertebrate population dynamics

Cf. QL618.3 Fish population dynamics

Cf. QL677.4 Bird population dynamics

Periodicity. Seasonal habits

753
General works

754
Migration. Migratory animals

Cf. QL496.2 Migration of insects

Cf. QL639.5 Migration of fishes

Cf. QL698.9 Migration of birds

Cf. QL739.3 Migration of mammals

755
Hibernation

Sleep behavior

755.3
General works

755.5
Nocturnal animals

Habitations

756
General works

756.15
Burrowing. Burrowing animals

756.2
Territoriality

Food

756.5
General works

756.55
Bloodsucking animals

756.56
Browsing

756.57
Cannibalism
Animal behavior
   Special topics -- Continued
756.6  Health behavior. Medicinal use
756.7  Drug use
756.8  Symbiosis
757  Parasitology
   Cf. QL392.A1+ Helminthology
   Cf. QL496.12 Parasitic insects and parasitoids
   Cf. RC119+ Parasitic diseases of man
   Cf. SF810.A3+ Parasitic diseases of animals
758  Predation. Predatory animals
   Cf. SF810.5+ Predator control
758.5  Aggression. Agonistic behavior
   Cf. QL100.5 Animal attacks
758.7  Reconciliation
759  Defense mechanisms
760  Grooming behavior
761  Sexual behavior
761.5  Familial behavior. Kin recognition
762  Parental behavior
762.5  Infanticide
   Developmental behavior
      General works
763  Critical periods. Imprinting
763.2  Play behavior
763.5  Sound production. Vocalization
   Cf. QL496.5 Insect sounds
765  Color
766  Animal tracks and signs
      Including droppings
   Cf. SK282 Tracking
775  Social relations. Animal societies
   Cf. QL364.5 Coloniality
775.5  Altruistic behavior
776  Communication
780  Eliminative behavior
781  Instinct
781.3  Motivation
782  Navigation
      Cf. QL698.8 Navigation by birds
782.5  Orientation
783  Swarming
785  Psychology. Intelligence. Learning
   General works
785.2  Memory
      Cf. QP406 Physiology
785.24  Number concept
785.25  Consciousness
785.27  Emotions
785.3  Extrasensory perception
(785.5)  Special animals
   see QL362+ or SF (Domestic animals)
Animal behavior -- Continued

Stories and anecdotes

For circus animals see GV1829+
For animals in television see PN1992.8.A58
For animals in motion pictures see PN1995.9.A5
For domesticated animals see SF1+
For wild animals as pets see SF459.A+

791
General works

793
Famous animals

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

795.A35
African wild dog

795.A4
Alligators

795.A6
Antelopes

795.A8
Asses, Wild

795.B2
Badgers

795.B3
Bats

795.B4
Bears

795.B5
Beavers

795.B53
Bees

795.B57
Birds
  Cf. SF460+ Cage birds

795.B6
Bison
  Black eagle see QL795.B57

795.B8
Buffaloes

795.B85
Butterflies
  Canada goose see QL795.B57

795.C2
Cats, Wild
  Cf. SF445.5 Stories about domestic cats

795.C3
Cattle, Wild
  Cf. SF197.4 Stories about domestic cattle

795.C5
Chamois

795.C54
Cheetahs

795.C57
Chimpanzees

795.C6
Coyotes

795.C65
Crabs

795.C67
Crocodiles

795.D3
Deer

795.D5
Dingoes

795.D6
Dogs
  Cf. SF426.2 Stories about domestic dogs

795.D7
Dolphins
  Ducks, Wild see QL795.B57

795.E4
Elephants

795.E94
European wildcat

795.F65
Fireflies

795.F7
Fishes

795.F8
Foxes

795.F85
Frogs

795.G3
Gazelles

795.G5
Gibbons

795.G55
Giraffe

795.G7
Gorillas

795.H3
Hamsters

795.H35
Hares

795.H4
Hedgehogs

795.H6
Hippopotami
Animal behavior
Stories and anecdotes
Special. By common name of animal, A-Z -- Continued

795.H65  Hornets
795.H7   Horses, Wild
         Cf. SF301 Stories about domestic horses
795.J27  Jackals
795.J3   Jaguars
795.K3   Kangaroos
795.K62  Koalas
795.L5   Leopards
795.L7   Lions
795.L9   Lynxes
795.M3   Marmots
795.M37  Mice
795.M5   Minks
795.M57  Moles
795.M6   Mongooses
795.M7   Monkeys
795.M8   Moose
         Mules see SF362
795.M85  Musk-oxen
795.M87  Muskrats
795.O7   Orangutans
795.O8   Otters
795.P18  Pandas
795.P2   Panthers
795.P28  Peccaries
795.P43  Peafowl
         Ponies, Wild see QL795.H7
795.P6   Porcupines
795.P85  Pumas
         Rabbits, Wild see QL795.H35
795.R15  Raccoons
795.R2   Rats
795.R4   Reindeer
795.R45  Rhinoceroses
795.R5   Ring-tailed phalangers
795.S3   Salamanders
         Sea otters see QL795.O8
795.S43  Seals
795.S46  Sharks
795.S47  Shrews
795.S55  Skunks
795.S6   Sloths
795.S65  Snakes
795.S7   Squirrels
795.S9   Swine
795.T47  Thylacine
795.T5   Tigers
795.T8   Turtles
795.W4   Weasels
795.W5   Whales
795.W6   Wild boars
         Wild dog, African see QL795.A35
795.W8   Wolves
Animal behavior
  Stories and anecdotes
    Special. By common name of animal, A-Z -- Continued
    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
    812.5 Dissection
    813.A-Z By laboratory animal, A-Z
      For specific organs or parts of the body, see QL821+
    813.C38 Cats
    813.D64 Dogs
      Dogfish shark see QL813.F57
    813.F57 Fishes
    813.F75 Frogs
    813.G63 Goats
    813.G73 Grasshoppers
    813.H35 Hamsters
    813.M55 Mice
    813.M56 Minks
      Perch see QL813.F57
    813.P54 Pigs. Swine
    813.R3 Rabbits
    813.R37 Rats
      Sharks see QL813.F57
    813.S69 Squids
      Museums. Exhibitions
    814.A1 General works
Anatomy

Museums. Exhibitions -- Continued

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

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
Anatomy
Urogenital system
  Reproductive organs -- Continued
  Female

Nervous system
  For histology see QM575
  Periodicals, societies, congresses, serial publications
  Collected works (nonserial)
  General works, treatises, and textbooks
  Laboratory manuals. Neurological technique
  Neural elements: Cells, fibers, supporting structures, etc.
  Central nervous system. Brain
  General works, treatises, and textbooks
    Special types
    Invertebrate
    Vertebrate
  Special structures, A-Z
  Afferent pathways
  Brain stem
  Cerebral cortex
  Cerebral ventricles
  Dentate nucleus
  Diencephalon
  Dorsal ventricular ridge
  Hippocampus
  Hypothalamus
  Limbic system
  Mechanoreceptors
  Medial geniculate body
  Neocortex
  Neural crest
  Olivary nucleus
  Prosencephalon
  Rhinencephalon
  Spinal cord
  Thalamus
  Peripheral nervous system. Sympathetic nervous system

Integument. Skin
  General works
  Skin glands. Odoriferous glands

Mammae
  General works

Sense organs
  General works
  Antennae
  Tongue
  Nose
  Ear
  Eye

Topographical and regional anatomy
  General works, treatises, and textbooks
  External form of the body
  Trunk
  General works
  Buttocks
Anatomy

Topographical and regional anatomy -- Continued

950.4
  Neck
950.5
  Head
950.6
  Tail
950.7
  Limbs
      General works
950.75
  Flippers
950.8
  Wings
950.9
  Segmental anatomy
950.95
  Body cavities

Embryology

For special organs see QL821+
For human embryology see QM601+

951
  Periodicals, societies, congresses, serial publications
952
  Nomenclature, terminology, notation, abbreviations
953
  History
      Biography
954
      Collective
954.2.A-Z
      Individual, A-Z
955
  General works, treatises, and textbooks
      Including general works on vertebrates or invertebrates
956
  Pictorial works and atlases
956.5
  Juvenile works
957
  Laboratory manuals
      Individual orders, genera, species, etc.
958
  Invertebrate
959
  Vertebrate

Special topics

961
  Experimental embryology
962
  Behavioral embryology
963
  Chemical embryology
963.5
  Cell differentiation
      Cf. QH607+ Cytology
      Germ cells
964
  General works
965
  Oogenesis and ovum
966
  Spermatogenesis and spermatozoa
      For fertilization see QP273
      Development of the embryo
          Including twins, multiple birth, etc.
971
  General works
971.2
  Organizer
973
  Allantois. Placenta
975
  Amnion. Amniotic fluid
977
  Chorion
979
  Myogenesis
979.5
  Chondrogenesis
981
  Metamorphosis
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

16.A3-Z
Individual, A-Z

  e.g.
  16.L4
    Leonardo da Vinci
  16.V5
    Vesalius

17
Directories

21
Early works through 1800
General works, treatises, and textbooks

  1801-1969
  1970-

24
Comparative anatomy of humans
Cf. GN281+ Human evolution. Man's place in nature

24.5
Anatomy of the child
Cf. RJ131+ Growth and development of children

25
Pictorial works and atlases

26
Popular works

27
Juvenile works

28
Special aspects of the subject as a whole
Study and teaching. Research

30
General works

31
Outlines, syllabi

32
Problems, exercises, examinations

33
Charts, manikins, etc.
By region or country
United States

  33.1
  General works

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

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

Dissection

33.4
History

33.5
General works, treatises, and textbooks

34
Manuals of practical anatomy. Laboratory manuals

35
Outline guides

39
Laboratory technique

41
Laboratories

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

Museums. Exhibitions

51.A1
General works

51.A2-Z
By region or country, A-Z
Subarrange each country by Table Q5

71
Addresses, essays, lectures
Nomenclature, terminology, notation, abbreviations

Musculoskeletal system

Skeleton. Osteology
  Cf. RA1059 Forensic osteology

General works

Skull
  Cf. GN71+ Craniology

Vertebral column

Ribs and sternum

Hipbone and pelvis

Bones of the extremities

Articulations. Joints

General works

Ligaments

Articular cartilage

Muscles

General works

Of the head and neck

Of the trunk

Of the limbs

Tendons

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

General works

Heart. Pericardium

Arteries and veins

Lymphatics

Organs of respiration and voice

General works

Larynx
  Cf. QP306 Larynx physiology

Trachea. Bronchi

Lungs. Pleura

Diaphragm

Organs of digestion

General works

Mouth

Teeth

Salivary glands

Pharynx. Esophagus. Tonsils

Stomach

Intestines

Liver

Gallbladder

Pancreas

Peritoneum. Mesentery and omentum

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

General works, treatises, and textbooks

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

Urinary and reproductive organs

General works

Kidneys
Urinary and reproductive organs -- Continued

408  Ureters
411  Bladder
413  Urethra
416  Generative organs, Male
421  Generative organs, Female
431  Perineum

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

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

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
      Head and neck. Jaws
      Trunk
540  General works
541  Thorax
543  Abdomen
      Limbs
      Upper. Arm and hand
      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

551  General works, treatises, and textbooks
552  Study and teaching. Research
553  General works
554  Outlines, syllabi
555  Problems, exercises, examinations
555  Laboratory manuals
556  Laboratory technique
556.5.A-Z  Special methods, A-Z
Human and comparative histology
   Laboratory technique
   Special methods, A-Z -- Continued
   Embedding, Plastic see QM556.5.P53
556.5.F5
   Fixation
556.5.L9
   Lyophilization
556.5.P53
   Plastic embedding
557
   Pictorial works and atlases
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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
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571
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576
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   Generative organs
577
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577.4
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577.8
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601
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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

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<td>Nomenclature, terminology, notation, abbreviations</td>
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<td>General works, treatises, and textbooks</td>
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<tr>
<td>33.6.M36</td>
<td>Mathematical models</td>
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#### Human physiology

- Including general works on human biology
- General works, treatises, and advanced textbooks

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<td>Handbooks, manuals, etc.</td>
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<td>36</td>
<td>School textbooks of physiology and hygiene</td>
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<td>Juvenile works</td>
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<td>38</td>
<td>Popular works</td>
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</table>

#### Study and teaching. Research

Cf. RA440+ Hygiene

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<td>Subarrange each country by Table Q6</td>
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<td>Addresses, essays, lectures</td>
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<tr>
<td>77</td>
<td>Miscellaneous and curiosities</td>
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Phenomena of animal life (General)
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81
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81.5
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81.6
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Cf. GF1+ Human ecology

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82.2.A2
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82.2.A3
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82.2.A36
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82.2.A4
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Biomagnetism see QP82.2.M3

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Cf. QP82.2.H8 Humidity
Cf. QP82.2.T4 Temperature

82.2.C6
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82.2.E4
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82.2.E43
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82.2.G35
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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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82.2.I45
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82.2.I5
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82.2.I53
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82.2.L3
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82.2.L5
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82.2.M3
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82.2.M5
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82.2.M54
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82.2.N6
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82.2.N64
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82.2.P4
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82.2.S8
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82.2.T4
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Cf. QP82.2.H4 Heat
Cf. QP135 Thermoregulation
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82.2.U37
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82.2.U4
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82.2.U45
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Cf. RC1015 Human underwater physiology

82.2.V5
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82.2.W36  Water pollution
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82.2.W4   Weightlessness
     Cf. RC1151.W44 Human space physiology

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     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

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  Including physical and chemical properties
88  General works
88.15  Adipose tissues. Brown adipose tissue
     Cf. QM565 Histology
88.2  Bone
88.23  Connective tissues
88.3  Hair. Fur. Wool
88.4  Epithelium
     Cf. QM561 Histology
88.45  Endothelium
     Cf. QP88.45 Histology
     Muscle see QP321+
     Nerve see QP361+
88.5  Skin
     Cf. QP220+ Skin secretions
     Cf. QP369+ Skin nerves
     Cf. QP372.9 Galvanic skin response
     Cf. QP450+ Cutaneous senses

88.6  Teeth
     Cf. QP149 Mastication

89  Transplantation
     Cf. RD120.6+ Surgery
90  Rejuvenation
90.2  Regeneration
90.4  Homeostasis
90.5  Body fluids
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     For secretions see QP190+
     For cerebrospinal fluid see QP375
90.6  Osmoregulation
90.7  Acid-base equilibrium

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91  General works
92  Formation. Hematopoiesis. Bone marrow
    Composition and chemistry
93  General works
    Coagulation
      Including fibrin, fibrinogen, thrombin, prothrombin, thromboplastin
93.5  General works
93.7.A-Z  Special factors, A-Z
93.7.A58  Antithrombins
93.7.P76  Protein C
93.7.T45  Thrombomodulin
93.7.V65  Von Willebrand factor

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94  General works
    Leucocytes. White blood cells
      Cf. QR185.8.L48 Immunology
95  General works
95.2  Basophils
95.3  Eosinophils
      Cf. QR185.8.E58 Immunology
95.4  Granulocytes
      Cf. QR185.8.G73 Immunology
95.5  Lymphocytes
      Cf. QR185.8.L9 Immunology
95.7  Monocytes
95.8  Neutrophils
      Cf. QR185.8.N47 Immunology

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96  General works
96.5  Hemoglobin
      Cf. QP99.3.G55 Glycosylated hemoglobin
      Cf. RC641.7.H35 Hemoglobinopathy
96.7  Reticulocytes
      Platelets
      Cf. QR185.8.P58 Immunology
97  General works
97.5  Megakaryocytes

98  Blood groups
99  Plasma and serum
99.3.A-Z  Special constituents, A-Z
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99.3.A45  Alpha macroglobulins
      Antithrombins see QP93.7.A58
99.3.A65  Apolipoproteins
      Including individual apolipoproteins
99.3.B5  Blood glucose. Blood sugar
99.3.C3  Carbon dioxide
      Fibrin and fibrinogen see QP93.5+
99.3.G3  Gases
      Cf. RB45.2 Examination of blood gases
99.3.G55  Glycosylated hemoglobin
99.3.H3  Haptoglobin
99.3.H35  Hematin
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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
   Platelet activating factor see QP752.P62
99.3.P7   Proteins
   Prothrombin see QP93.5+
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99.5.A-Z  Other special, A-Z
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99.5.E5   Electrophoresis
99.5.H4   Hemolysis
99.5.S4   Sedimentation
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101.3    Collected works (nonserial)
101.4    History of discovery and ideas on circulation. Harvey
(102)    General works
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103      Juvenile works
104      Study and teaching. Research
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      Including pressure, velocity, flow, viscosity, etc.
105      General works
105.15   Rheology
105.2    Measurement of pressure
105.4    Measurement of flow
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106      General works
106.2    Arterial. Aorta
106.4    Venous
106.6    Microcirculation. Capillaries
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107      Pulmonary system
108      Coronary system
108.5.A-Z Other, A-Z
108.5.C4  Cerebral circulation
      Including regional cerebral blood flow
108.5.P45 Peripheral circulation
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109      Vasomoter control. Baroreflexes
110.A-Z  Other special topics, A-Z
110.A37  Adrenergic receptors
110.A7   Artificial circulation
110.B5   Blood volume
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110.C64  Collateral circulation
110.G45  Gene expression
110.R3  Radiation effects
110.V34  Vascular endothelium
110.V37  Vascular muscle
110.V38  Vascular resistance

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(111)  General works
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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

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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
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112.5.N83  Nuclear magnetic resonance
112.5.R6  Radiography
113  Cardiac dynamics
   Including beat, rate, output, acceleration, rhythm
113.2  Myocardium
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113.4  Nervous control
113.6  Cardiovascular sound
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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
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114.H94  Hypothermia. Cold
114.I8  Isolation. Survival
114.L94  Lymphatics
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114.M65  
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114.R43  
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114.R45  
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120.M39  
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Cf. RA782 Breathing and exercises

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Cf. SF94.5+ Animal culture. Feeding and feeds
  
Cf. TX551+ Home economics

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      Cf. QP188.S2 Salivary glands
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  148 Deglutition
  149 Mastication
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  151 Stomach
    Cf. QP193 Gastric juice
  156 Intestines
  157 Peritoneum. Mesentery and omentum
  159 Feces
  165 Absorption
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  176 Energy metabolism
  177 Relation of oxygen to metabolism
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  180 Gastrointestinal motility
  185 Liver. Gallbladder
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188.H9  Hypothalomo-hypophyseal system
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   Cf. QP356.4 Neuroendocrinology
   Cf. QP383.7+ Hypothalamus
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188.P26  Pancreas. Islands of Langerhans
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188.P3  Parathyroid gland
188.P55  Pineal body
188.P58  Pituitary gland
   Cf. QP188.H9 Hypothalomo-hypophyseal system
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   Cf. QP191 Saliva
188.S26  Salt glands
188.S43  Sebaceous glands
   Cf. QP222 Sebum
188.S7  Spleen
188.S9  Sweat glands
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   Cf. QP752.B54 Bile acids

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250.5
Bladder
250.8
Urethra
Reproduction. Physiology of sex
   Cf. HQ31+ Sex instruction
   Cf. QP81.6 Sexual orientation. Homosexuality
   Cf. RA788 Sexual health
251
General works, treatises, and textbooks
251.5
Juvenile works
Reproductive endocrinology
   Cf. RG159+ Endocrine gynecology
   Cf. RG558.5 Obstetrical endocrinology
   Cf. RG616 Fetus
252
General works
252.5
Reproductive immunology
   Cf. RG557 Obstetrics
Male sex physiology
253
General works, treatises, and textbooks
255
Testes and semen
   Cf. QL966 Spermatogenesis
257
Accessory male organs
Female sex physiology
259
General works, treatises, and textbooks
261
Ovary and ovulation
   Cf. QL965 Oogenesis
262
Uterus
263
Menstruation
   Cf. RJ140+ Physiology of adolescents
Urinary and reproductive organs

Reproduction. Physiology of sex

Female sex physiology -- Continued

Accessory female organs

Hermaphroditism

Fertilization. Fecundation

For fertility see QP251

Ovum implantation

Physiology of the embryo

Cf. QL951+ Embryology (Zoology)
Cf. QM601+ Human embryology
Cf. RG610+ Human fetus

Sex differentiation

Sex determination. Genetic sex determination

Cf. QH600.5 Sex chromosomes
Cf. RG666 Determination of sex during pregnancy

Environmental sex determination

Including temperature-dependent sex determination

Sex preselection

Viviparity. Ovoviviparity

Gestation

Cf. RG499.2+ Obstetrics

Parturition

Cf. RG651+ Labor

Musculoskeletal system. Movements

Including physiology of exercise
Cf. GN231+ Physical anthropology
Cf. QP114.E9 Exercise effects on heart
Cf. QP187.3.E93 Endocrinology
Cf. RC1235+ Physiology of sports

General works, treatises, and textbooks

Mechanics. Kinesiology

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

Work physiology

Other special movements, A-Z

Ciliary motion

Climbing

Dancing

Deglutition see QP148

Flight

Galloping

Cf. SF289 Horses

Hand movements

see QP334

Head movements

see QP325

Ingestion see QP147

Irritability

Jumping
Musculoskeletal system. Movements
Other special movements, A-Z -- Continued
Mastication see QP149

310.P5
Phototropism
310.R45
Rhythmic movements
310.R85
Running
310.S45
Skipping
(310.S65)
Spinal movements
see QP330
310.S77
Stretching
310.S95
Swimming
310.T9
Typewriting
310.W3
Walking
310.W7
Writing
310.3
Posture
310.5
Hypokinesia. Inactivity
311
Miscellany and curiosa
Muscle
Cf. QP113.2 Myocardium
321
General works
321.5
Smooth muscle
Cf. QP110.V37 Vascular muscle
322
Sphincters
323
Joints
By region
Head and neck
325
General works
327
Face
330
Spine
Upper extremities
333
General works
334
Hand
Lower extremities
335
General works
336
Foot
341
Electrophysiology
Cf. QL639.1 Fishes
Cf. QP372.9 Galvanic skin response
Cf. QP447.5 Electroreceptors
345
Magnetic field generation
Neurophysiology and neuropsychology
351
Periodicals, societies, congresses, serial publications
352
Collected works (nonserial)
352.5
Dictionaries and encyclopedias
353
History
Biography
353.3
Collective
353.4.A-Z
Individual, A-Z
354
Early works through 1800
General works, treatises, and textbooks
355
1801-1969
355.2
1970-
356
Special aspects of the subject as a whole
356.15
Comparative neurobiology
356.2
Molecular neurobiology
356.22
Neurogenetics
Neurophysiology and neuropsychology -- Continued

356.25  Developmental neurophysiology
356.3   Neurochemistry. Brain chemistry
356.4   Neuroendocrinology
         Cf. QP188.H9 Hypothalamo-hypophyseal system
356.45  Psychoneuroendocrinology. Behavioral endocrinology
356.47  Neuroimmunology
356.5   Radiation effects on the nervous system
357    Laboratory manuals
         Cf. BF79 Psychology laboratory manuals
357.5   Data processing
359    Miscellany and curiosa

Neuropsychology. Physiological psychology. Psychophysiology
         Cf. BF1+ Psychology
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
365.5   Peripheral nervous system
         General works
366    Cerebrospinal nerves
367    Cranial nerves
368    Spinal nerves
368    Autonomic nervous system
         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
370    Central nervous system
         General works
370.5   Pyramidal tract. Extrapyramidal tracts
371    Spinal cord
372    Reflexes
         Cf. QP416 Conditioned response
372.5   General works
372.6   Stretch reflex
372.8   Startle reflex
372.9   Visceral reflex
372.9   Galvanic skin response
Neurophysiology and neuropsychology

Nervous system

Central nervous system -- Continued

(374) Other special topics (not A-Z)
375 Cerebrospinal fluid
375.5 Blood-brain barrier. Choroid plexus

Brain

Cf. QP108.5.C4 Cerebral circulation
Cf. QP356.3 Neurochemistry

376 General works
376.5 Electroencephalography
376.6 Imaging

Brain stem

376.8 General works
377 Medulla oblongata
377.5 Pons Varolii

Midbrain. Mesencephalon

378 General works
378.3 Substantia nigra
378.4 Periaqueductal gray matter

379 Cerebellum
Cerebrum. Cerebral hemispheres

381 General works
382.A-Z Special lobes, A-Z
382.F7 Frontal
382.O22 Occipital
382.P3 Parietal
382.T4 Temporal
382.2 Corpus callosum
Cortex

383 General works
383.12 Neocortex
383.15 Sensorimotor cortex
383.17 Prefrontal cortex
383.2 Limbic system
383.25 Hippocampus

Basal ganglia

383.3 General works
383.5 Thalamus. Optic thalamus
383.6 Claustrum

Hypothalamus

Cf. QP188.H9 Hypothalamo-hypophyseal system

383.7 General works
383.8 Suprachiasmatic nucleus
383.9 Corpus striatum

384.3 Encephalic photoreceptors

Localization of functions

385 General works
385.5 Cerebral dominance
388 Brain stimulation techniques

Time relations of central processes, reaction time, etc. see BF317
Association of ideas see BF365+

395 Higher nervous activity
396 Information processing
398 Intellect

Cf. BF431+ Psychology
Neurophysiology and neuropsychology
Nervous system
Central nervous system
Brain -- Continued

Language. Speech
Cf. BF455+ Psychology
Cf. QP306 Speech

Emotions. Pleasure and pain
Cf. BF511 Psychology

Personality

Attention and volition

Memory
Cf. BD181.7 Philosophy
Cf. BF370+ Psychology

Learning
Cf. BF318 Psychology
Cf. LB1060+ Education

Motivation
Cf. BF501+ Psychology

Consciousness, subconsciousness, and unconsciousness

Conditioned response

Fatigue
Cf. BF482 Psychology
Cf. QP321+ Muscle

Sleep. Hypnotic conditions, etc.

General works

Dreaming
Cf. BF1074+ Parapsychology

Napping

Other special topics (not A-Z)

Senses. Sensation. Sense organs
Cf. BF231+ Psychology
Cf. QP137+ Hunger and thirst

General works, treatises, and textbooks

Juvenile works

General special

Perceptual process

General works

Intersensory effects. Multisensory processing
Multisensory processing see QP442

Space
Including orientation
Cf. QP471+ Equilibrium
Cf. QP491+ Visual space perception

Time

Sensory receptors

General works
Chemoreceptors see QP455+

Electroreceptors

Magnetoreceptors
Nociceptors see QP451.4

Photoreceptors
For encephalic photoreceptors see QP384.3
Proprioceptors see QP454
Thermoreceptors see QP451.6

Special senses
Neurophysiology and neuropsychology
Senses. Sensation. Sense organs
Special senses -- Continued
Somesthesia
448
  General works
  Cutaneous senses
450
  General works
451
  Touch
451.2
  Pressure
451.4
  Pain
    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
Light perception and discrimination
481
  General works
482
  Night vision
482.5
  After-images
483
  Color vision
  Binocular vision
487
  General works
Neurophysiology and neuropsychology
Senses. Sensation. Sense organs
Special senses
Vision. Physiological optics
Binocular vision -- Continued

487.5
Binocular rivalry
Visual space perception

491
General works
492
Form, solidity, size
493
Movement
494
Peripheral vision
495
Optical illusions

Animal biochemistry
For works limited to chemical aspects of biological materials see QD415+
Cf. QH345 General biochemistry and plants and animals
Cf. QR148 Microbiological chemistry
Cf. RB112.5 Clinical biochemistry
Cf. RS400+ Pharmaceutical chemistry

501
Periodicals, societies, congresses, serial publications
509
Collected works (nonserial)

History
511
General works
511.5.A-Z
By region or country, A-Z
Biography
511.7
Collective
511.8.A-Z
Individual, A-Z
512
Dictionaries and encyclopedias
513
Early works through 1800
General works, treatises, and textbooks
514
1801-1969
514.2
1970-
517.A-Z
Special topics, A-Z
517.A55
Allosteric regulation
517.B42
Binding sites
517.B44
Bioactive compounds
517.B48
Biochemical templates
517.B49
Bioconjugates
517.B5
Biodegradation
517.B53
Bioelectrochemistry
517.B54
Bioenergetics
517.B56
Biomimetics
517.B57
Biosynthesis
517.B58
Biothermodynamics see QP517.T48
517.B59
Biotransformation
517.C45
Cellular signal transduction
Including second messengers
517.C49
Charge transfer in biology
517.C54
Chemiluminescence
517.C57
Chirality
Computer simulation see QP517.M3
517.C66
Cooperative binding
517.C78
Cryobiochemistry
517.D57
Dissociation
517.F66
Fossil biomolecules
517.H53
High pressure biochemistry
Animal biochemistry
   Special topics, A-Z -- Continued

517.H93  Hydrogen bonding
517.L54  Ligand binding
517.M3   Mathematical models. Computer simulation
517.M65  Molecular dynamics
517.M66  Molecular orbitals
517.M67  Molecular recognition
517.P45  Photobiochemistry
517.P49  Physical biochemistry
517.P76  Protein binding
517.Q34  Quantum biochemistry
517.R4   Reaction rates
517.R48  Rheology
   Second messengers see QP517.C45
   Signal transduction, Cellular see QP517.C45

517.S83  Stereochemistry
517.S85  Structure-activity relationships
   Cf. RM301.42 Pharmacology
517.S87  Surface chemistry
   Templates, Biochemical see QP517.B48

517.T48  Thermodynamics

517.5   Biological chemistry as a profession. Vocational guidance
   Study and teaching. Research

518     General works
518.3   Outlines, syllabi
518.5   Problems, exercises, examinations
519     Laboratory manuals

Technique. Analytical biochemistry

519.7   General works
519.9.A-Z Special methods, A-Z
519.9.A35 Affinity chromatography
519.9.A36 Affinity electrophoresis
519.9.A37 Affinity labeling
519.9.A94 Autoradiography
519.9.B55 Bioluminescence assay
519.9.B84 Buffer solutions
519.9.C34 Calorimetry
519.9.C36 Capillary electrophoresis
519.9.C37 Capillary liquid chromatography
519.9.C44 Centrifugation
   Centrifugation, Density gradient see QP519.9.D45
   Chromatography
   Chromatography, Affinity see QP519.9.A35
   Chromatography, Countercurrent see QP519.9.C68
   Chromatography, Gas see QP519.9.G37
   Chromatography, Gel permeation see QP519.9.G44
   Chromatography, High performance liquid see QP519.9.H53
   Chromatography, Ion exchange see QP519.9.I54
   Chromatography, Liquid see QP519.9.L55
   Chromatography, Thin layer see QP519.9.T55
519.9.C57 Circular dichroism
519.9.C68 Countercurrent chromatography
519.9.D45 Density gradient centrifugation
519.9.E42 Electrochemical analysis
519.9.E43 Electrodes, Ion selective
Animal biochemistry  
   Technique. Analytical biochemistry  
   Special methods, A-Z -- Continued
519.9.E433  Electron paramagnetic resonance spectroscopy  
519.9.E4333  Electron probe microanalysis  
519.9.E434  Electrophoresis  
519.9.E46  Enzymatic analysis  
519.9.E48  Enzyme-linked immunosorbent assay  
519.9.F52  Flash photolysis  
519.9.F55  Flow injection analysis  
519.9.F56  Fluorescence spectroscopy, Fluorescent probes  
519.9.F58  Fluorimetry  
519.9.G37  Gas chromatography  
519.9.G42  Gel electrophoresis  
519.9.G44  Gel permeation chromatography  
519.9.H53  High performance liquid chromatography  
519.9.I42  Immunoassay  
519.9.I43  Immunoblotting  
   Immunoblotting, Western see QP519.9.W47  
   Immunoelectrophoresis see QR187.I47  
519.9.I44  Immunoenzyme technique  
519.9.I48  Infrared spectroscopy  
519.9.I54  Ion exchange chromatography  
519.9.I8  Isoelectric focusing  
519.9.I84  Isotachophoresis  
519.9.I87  Isotopes  
519.9.L37  Laser spectroscopy  
519.9.L55  Liquid chromatography  
   Liquid chromatography, High performance see QP519.9.H53  
519.9.L82  Luminescence immunoassay  
519.9.L84  Luminescence spectroscopy  
519.9.M3  Mass spectrometry  
519.9.M64  Molecular probes  
519.9.N8  Nuclear activation analysis  
519.9.N83  Nuclear magnetic resonance spectroscopy  
519.9.P48  Photoaffinity labeling  
   Photolysis, Flash see QP519.9.F52  
519.9.P68  Positron emission tomography  
519.9.P84  Pulsed-field gel electrophoresis  
   Radioactivation analysis see QP519.9.N8  
519.9.R28  Radioactive tracers  
519.9.R3  Radioimmunoassay  
519.9.R34  Radioligand assay  
519.9.R36  Raman spectroscopy  
519.9.S45  Separation (Technology)  
519.9.S58  Spectrophotometry  
519.9.S6  Spectroscopy  
   Spectroscopy, Electron paramagnetic resonance see QP519.9.E433  
   Spectroscopy, Fluorescence see QP519.9.F56  
   Spectroscopy, Laser see QP519.9.L37  
   Spectroscopy, Nuclear magnetic resonance see QP519.9.N83  
   Spectroscopy, Raman see QP519.9.R36  
   Spectroscopy, X-ray see QP519.9.X73  
519.9.S85  Supercritical fluid extraction. Supercritical fluid chromatography  
519.9.T55  Thin layer chromatography  
519.9.T59  Time-resolved spectroscopy
Animal biochemistry
  Technique. Analytical biochemistry
    Special methods, A-Z -- Continued
  519.9.T84  Two-dimensional electrophoresis
  519.9.U47  Ultracentrifugation
  519.9.U48  Ultratrace analysis
  519.9.V65  Voltage-sensitive dyes
  519.9.W47  Western immunoblotting
  519.9.X72  X-ray crystallography
  519.9.X73  X-ray spectroscopy
  520  Handbooks, tables, formulas, etc.
  521  Miscellany and curiosa
    Special substances
    Colloids
    Radicals
    Xenobiotics
  529  General works
  529.5  Plant compounds
    Inorganic substances
      General works, treatises, and textbooks
  531  Metals
  532  Minerals
  534  Trace elements
    Cf. TX553.T7 Food value
    (Table Q1)
    Organic substances
      General works, treatises, and textbooks
    Proteins, amino acids, etc.
      General works, treatises, and textbooks
    Protein-protein interactions
      Proteolysis in general
        Including non-enzymatic proteolysis
      Enzymatic proteolysis see QP609.P78
  552.A-Z  Special proteins (other than amino acids, enzymes, or hormones), A-Z
    Actin
  552.A27  Actomyosin
  552.A32  Albumins
  552.A43  Allosteric proteins
  552.A436  Alpha fetoproteins
  552.A439  Alpha-synuclein
  552.A45  Amyloid
  552.A46  Antifreeze proteins
    Antigens and antibodies see QR186.5+
  552.A65  Aquaporins
  552.A87  ATP-binding cassette transporters
  552.A94  Avidin
  552.B65  Bone morphogenetic proteins
  552.C17  C-reactive protein
  552.C22  Calcitonin gene-related peptide
  552.C24  Calcium-binding proteins
  552.C28  Calmodulin
  552.C29  Calreticulin
  552.C3  Carnosine
  552.C34  Carrier proteins
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

552.C35
Casein
552.C38
Cbl proteins
552.C42
Cell adhesion molecules
552.C45
Cerebrospinal fluid proteins
552.C48
Chromogranins
552.C56
Clusterin
552.C6
Collagen
552.C62
Collectins
552.C63
Connexins
552.C64
Copper proteins
552.C94
Copper proteins
552.C96
Cytoskeletal proteins
552.D95
Dystrophin
552.E4
Elastin
552.E53
Endorphins
552.E54
Endothelins
552.E55
Enkephalins
552.E59
Epidermal growth factor
552.E95
Extracellular matrix proteins
552.F37
Fatty acid-binding proteins
552.F47
Ferritin
Fetoproteins, Alpha see QP552.A439
Fibrinogen see QP93.5+
552.F5
Fibroblast growth factors
552.F52
Fibromodulin
552.F53
Fibronectins
552.F54
Flavoproteins
552.G16
G proteins
552.G25
Galanin
552.G3
Gamma globulins
552.G35
Gastric intrinsic factor
552.G4
Gelatin
552.G45
Glycophosphatidylinositol-anchored proteins
552.G5
Globin
552.G55
Globulins
552.G58
Glutathione
552.G59
Glycoproteins, Glycopeptides
552.G7
Gramicidins
552.G73
Green fluorescent protein
552.G76
Growth factors
552.H3
Haptoglobins
552.H43
Heat shock proteins
Hemoglobin see QP96.5
552.H46
Hemoproteins
552.H48
Hepatocyte growth factor
552.H5
Histones
552.H9
Hypoglycin
Immunoglobulins see QR186.7+
552.I54
Insulin-like growth factor-binding proteins
552.I55
Integrins
552.I56
Interphotoreceptor retinoid-binding protein
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued
Intrinsic factor see QP552.G35

552.I67  Iron proteins
552.I7   Iron-sulfur proteins
552.K4   Keratin
552.K46  Kinesin
552.K5   Kinins
552.L3   Lactalbumin
552.L345  Lactoferrins
552.L35  Lactoglobulin
552.L42  Lectins
552.L48  Lipocortins
552.L5   Lipoproteins
552.M44  Membrane proteins
552.M46  Metalloproteins
552.M47  Metallothionein
552.M54  Milk proteins
552.M64  Molecular chaperones
552.M8   Mucins
552.M85  Muscle proteins
552.M88  Myelin proteins. Myelin basic protein
552.M9   Myohemoglobin
552.M93  Myosin
552.N36  Nerve growth factor
552.N37  Nerve proteins
552.N38  Neuropeptide Y
552.N39  Neuropeptides
552.N4   Neurophysins
552.N43  Neuropilins
552.N46  NF-kappa B (DNA-binding protein)
552.N62  Nonhistone chromosomal proteins
552.N67  Notch proteins
552.N82  Nucleopeptides
Nucleoproteins see QP625.N87
552.O65  Opioid peptides
552.O77  Osteopontin
552.O94  Ovomucoid
552.P25  p53 protein
552.P39  Paxillin
552.P4   Peptides
552.P45  Peptones
552.P5   Phosphoproteins
Plasma proteins see QP99.3.P7
552.P56  Platelet-derived growth factor
552.P6   Polypeptides
552.P65  Pregnancy proteins
552.P7   Protamines
Protectins see QP552.L42
552.P73  Proteoglycans
Prothrombin see QP93.5+
552.Q55  Quinoproteins
Receptor-specific proteins see QP552.L42
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.

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

552.S32 Semaphorins
552.S35 Seminal proteins
552.S37 Septins
552.S4 Sericin
  Serum albumin see QP99.3.A4
552.S65 Somatomedin
552.S74 Steroid-binding proteins
552.S9 Substance P
  Sulfur-iron proteins see QP552.I7
  Synuclein, Alpha- see QP552.A4397
552.S96 Synucleins
552.T33 Tachykinins
552.T37 Tenascin
552.T43 Thaumatins
552.T45 Thioredoxin
  Thrombin see QP93.5+
552.T47 Thrombospondins
552.T5 Thyroglobulin
552.T55 Thyroprotein
552.T68 Transcription factors
552.T7 Transferrin
552.T72 Transforming growth factors
552.T77 TRP channels
552.T82 Tubulins
552.T83 Tuftsin
552.U24 Ubiquitin
552.U86 Uteroglobin
552.V58 Vitamin K-dependent proteins
552.W58 Wnt proteins
552.Z55 Zinc proteins

Amino acids

561 General works, treatises, and textbooks
562.A7 Arginine
562.A8 Aspartic acid
562.B73 Branched chain amino acids
562.C9 Cystine
562.D53 Diamino amino acids
562.G5 Glutamic acid
562.G55 Glutamine
562.G58 Glycine
  Glycocoll see QP562.G58
562.H5 Histidine
562.L4 Leucine
562.L8 Lysine
562.M4 Methionine
562.P5 Phenylalanine
562.P7 Proline
562.S45 Selenomethionine
562.T5 Threonine
562.T7 Tryptophan
Animal biochemistry
Special substances
Organic substances
Proteins, amino acids, etc.
Amino acids
Constituents of proteins, A-Z -- Continued
562.T9
   Tyrosine
562.V3
   Valine
563.A-Z
   Other, A-Z
563.A3
   Adenosylmethionine
563.A38
   Arginate
563.A48
   Aminobutyric acid
563.A5
   Aminocapric acid
563.C5
   Citrulline
563.D5
   Dihydroxyphenylalanine
   DOPA see QP563.D5
563.D66
   Dopamine
563.G32
   GABA
   Gamma-aminobutyric acid see QP563.G32
563.K33
   Kainic acid
563.K9
   Kynurenine
563.O7
   Ornithine
563.T5
   Thyroxine
Hormones
571
   General works, treatises, and textbooks
571.5
   Hormone inhibition
571.7
   Hormone receptors
572.A-Z
   Special, A-Z
   ACTH see QP572.A35
572.A27
   Adrenaline
572.A3
   Adrenocortical hormones
572.A35
   Adrenocorticotropic hormone
572.A4
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572.A48
   Amylin
572.A5
   Androgens
572.A52
   Androstenedione
572.A54
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   Including individual angiotensins
572.A82
   Atrial natriuretic peptides
572.C3
   Calcitonin
572.C33
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572.C36
   Catechol estrogens
572.C47
   Chalones
572.C5
   Cholecystokinin
572.C53
   Chorionic gonadotropins
572.C6
   Corticosterone
572.C62
   Corticotropin releasing hormone
572.C65
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572.E25
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572.E27
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572.E8
   Estradiol
572.E85
   Estrogen
   Cf. QP572.P48 Phytoestrogens
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572.F6
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572.G3
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572.G35  Gastrointestinal hormones
572.G45  Ghrelin
572.G5   Glucagon
572.G52  Glucagon-like peptide 1
572.G54  Glucocorticoids
572.G58  Glycoprotein hormones
572.G6   Growth hormone see QP572.S6
572.G75  Growth hormone releasing factor
572.H85  Hydroxyprogesterone
572.H9   Hypothalamic hormones
572.I47  Inhibin
572.I5   Insulin
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Lactogenic hormones see QP572.P74
572.L48  Leptin
572.L5   Lipocaic
572.L56  Lipotropin
572.L84  Luteinizing hormone
572.L85  Luteinizing hormone releasing hormone
572.M44  Melatonin
572.M66  Motilin
572.M75  MSH
572.N47  Neurotensin
Noradrenalin see QP572.N6
572.N6   Norepinephrine
572.O74  Orexins
572.O9   Oxytocin
572.P3   Parathyroid hormone
572.P33  Parathyroid hormone-related protein
572.P4   Peptide hormones
572.P47  Pheromones
572.P48  Phytoestrogens
572.P5   Pituitary hormone releasing factors
572.P52  Pituitary hormones
572.P57  Placental hormones
572.P67  Pregnenolone
572.P7   Progesterone
572.P74  Prolactin
572.P75  Prosecretin
572.P77  Protein hormones
572.R46  Relaxin
572.S34  Secretin
572.S4   Sex hormones
572.S59  Somatostatin
572.S6   Somatotropin
572.S7   Steroid hormones
572.T4   Testosterone
572.T46  Thymic hormones
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572.T5
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572.T55
Thyrotropin

572.T56
Thyrotropin releasing factor

572.V28
Vasoactive intestinal peptides

572.V3
Vasopressin

Enzymes
Cf. QK896 Plant enzymes

601
General works, treatises, and textbooks

601.2
Isoenzymes

601.3
Enzyme kinetics

Enzyme regulation
For works on regulation of individual enzymes or enzyme classes, see QP601.7+

601.4
General works

601.45
Enzyme activation
For works on activation of individual enzymes or enzyme classes, see QP601.7+

601.5
Enzyme inhibition
For works on inhibition of individual enzymes or enzyme classes, see QP601.7+

601.6
Extracellular enzymes

Metalloenzymes

601.7
General works

601.75.A-Z
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601.75.M35
Manganese enzymes

601.75.M64
Molybdenum enzymes

601.75.Z54
Zinc enzymes

601.8
Thiamin pyrophosphate-dependent enzymes

Oxidoreductases

602
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602.A-Z
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603.A34
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603.A35
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603.A37
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603.A4
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603.A8
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603.C3
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603.C45
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603.C85
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603.C9
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603.D4
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603.D5
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603.F47
Ferredoxin-NADP reductase

603.G55
Glucose dehydrogenase

603.G57
Glucosephosphate dehydrogenase

603.H45
Heme oxygenase

603.H55
Histaminase

603.H88
Hydrogenase

603.H9
Hydroxylases
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603.H92 Hydroxymethylglutaryl coenzyme A reductases
603.I54 IMP dehydrogenase
603.L33 Lactate dehydrogenase
603.L56 Lipoxigenases
603.M48 Methylene tetrahydrofolate reductase
603.M6 Monamine oxidase
603.M65 Monooxygenases
603.N58 Nitrogenase
603.O8 Oxidases
603.O85 Oxygenases
603.P4 Peroxidase
603.P43 Phenol oxidase
603.P74 Proline hydroxylase
603.P76 Prostaglandin synthase
603.P8 Pyruvate oxidase
603.R4 Reduced nicotinamide adenine dinucleotide dehydrogenase
603.R52 Ribonucleoside diphosphate reductase
603.S9 Succinate dehydrogenase
603.S94 Superoxide dismutase
603.T78 Tryptophan oxygenase
      Tyraminase see QP603.M6
      Tyrosinase see QP603.P43
603.U7 Urate oxidase
      Uricase see QP603.U7

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606.A33 Aminotransferases
606.A43 Aspartate aminotransferase
606.C37 Carnitine acyltransferases
606.C45 Choline acetylase
606.C73 Creatine kinase
606.D46 Deoxyribonucleotide nucleotidyltransferases. DNA polymerases
606.F7 Fructokinase
606.G5 Glucan phosphorylase
606.G57 Glucokinase
606.G573 Glucuronosyltransferase
606.G58 Glutamic-aspartic transaminase
606.G59 Glutathione transferase
606.G592 Glycogen phosphorylase
606.G6 Glycosyltransferases
      Kinase, Protein see QP606.P76
606.M48 Methyltransferases
606.P53 Phosphofructokinase
606.P55 Phosphotransferases
606.P76 Protein kinases
606.P78 Protein-tyrosine kinase
606.R48 Reverse transcriptase
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  606.R49  Rho-associated protein kinases
  606.R53  Ribonucleate nucleotidyltransferases. RNA polymerases
  606.S85  Sulfortransferases
  606.T44  Telomerase
  606.T73  Transaminases see QP606.A43
  606.T75  Transketolase
  606.U7   Uridine diphosphoglucuronosyltransferase

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608  General works, treatises, and textbooks
  609.A-Z  Special, A-Z
  609.A25  Acetylcholinesterase
  609.A3   Adenosine triphosphatase
  609.A38  Alanine aminopeptidase
  609.A4   Alkaline phosphatase
  609.A43  Allantoinase
  609.A438 Amidases
  609.A45  Aminopeptidases
  609.A46  Amylase
  609.A53  Angiotensin converting enzyme
  609.A7   Arginase
  609.A77  Arylsulphatases
  609.A86  Aspartic proteinases
  609.A88  Astacins
  609.B46  Beta lactamases
  609.C26  Calpain
  609.C3   Carboxypeptidase
  609.C34  Caseinolytic proteases
  609.C35  Cathepsin
  609.C37  Cellulase
  609.C38  Cellulose 1,4-beta-cellobiosidase
  609.C39  Chitinase
  609.C4   Cholinesterase
  609.C45  Chymosin see QP609.R4
  609.C6   Chymotrypsin
  609.C64  Coagulase
  609.C65  Collagenase
  609.C92  Converting enzyme, Angiotensin see QP609.A53
  609.C93  Cyclic nucleotide phosphodiesterases
  609.C94  Cyclin-dependent kinases
  609.D4   Cysteine proteinases
  609.D48  Deoxyribonucleases
  609.D52  Dextranase
  609.D54  Diastase see QP609.A45
  609.E38  Digestive enzymes
  609.E4   Dipeptidases
  609.E38  DNA restriction enzymes see QP609.R44
  609.E4   Elastases
  609.E4   Emulsin
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609.E44  Endonucleases
609.E7   Erepsin
609.E8   Esterases
609.F7   Fructofuranosidase
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609.G3   Galactosidase
609.G38  Glucose-6-phosphatase
609.G4   Glucosidases
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609.G45  Glycosidases
609.G83  Guanosine triphosphatase
609.H5   Hexosediphosphatase
609.H8   Hyaluronidase
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609.K3   Kallikrein
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609.L5   Lipase
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609.L9   Lysozyme
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609.N78  Nucleases
609.N8   Nucleosidases
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609.P35  Paraoxonase
        Pectinase see QP609.P6
609.P4   Pepsin
609.P45  Peptidases (Exopeptidases)
609.P5   Phosphatases
609.P52  Phosphatidate phosphatase
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609.P78  Proteolytic enzymes
          Including enzymatic proteolysis
609.P85  Pullulanase
609.R38  Renin
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609.R44  Restriction enzymes, DNA
609.R49  Rho GTPases
609.R53  Ribonucleases
609.S47  Serine proteinases
609.S63  Sodium-potassium ATPase
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       609.T7 Trypsin
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       609.U7 Urease
   Lyases
   612 General works, treatises, and textbooks
   613.A-Z Special, A-Z
       613.A33 Adenylate cyclase
       613.A4 Aldolases
       613.A75 Aromatic amino acid decarboxylase
       613.C37 Carbonic anhydrase
       613.P9 Carbonate dehydratase see QP613.P9
       613.E56 Enolase
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       613.P54 Phenylalanine ammonia lyase
       613.P9 Phosphopyruvate hydratase see QP613.P9
       612 Pyruvate decarboxylase
   Isomerases
   615 General works, treatises, and textbooks
   616.A-Z Special, A-Z
       616.A4 DNA helicases
       616.D54 DNA topoisomerases
       616.D56 Peptidyloprolyl isomerase
       616.P46 Protein disulfide isomerase
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   618 General works, treatises, and textbooks
   619.A-Z Special, A-Z
       619.A45 Aminoacyl-tRNA synthetases
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       619.G58 Glutamine synthetase
       619.L9 Lysyl ribonucleic acid synthetase
       619.P87 Pyruvate carboxylase
   Nucleic acids
   620 General works, treatises, and textbooks
      Ribonucleic acids
      623 General works, treatises, and textbooks
       623.5.A-Z Special, A-Z
       623.5.A58 Antisense RNA
       623.5.C36 Catalytic RNA
       623.5.M47 Messenger RNA
       623.5.S63 Small interfering RNA
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       623.7 RNA-ligand interactions
       623.8.A-Z Special ligands, A-Z
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623.8.P75

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624.5.D726
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624.5.M58
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624.5.R33
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624.5.R43
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624.5.R48
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624.75.D77
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625.A27
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625.N86
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625.N89
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625.O47
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        Cf. QR180+ Immunology
        Cf. RM278 Immunotherapy

631  General works, treatises, and textbooks
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632.B3  Bacterial toxins
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632.C9  Cytochalasins
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671.C35  Carotenoids. Carotinoids
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671.C78  Cytochrome b
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671.C83  Cytochrome P-450
671.C85  Cytochromes
671.F5  Flavins
671.F52  Flavonoids
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671.H45  Heme
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671.L52  Lipofuscins
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702.F58  Fluorocarbohydrates
702.F68  Fructans
702.F7   Fructose
702.F73  Fructose-2,6-bisphosphate
702.G3   Galactose
702.G48  Glucans
702.G5   Glucides
702.G55  Glucosamine
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702.P47  Peptidoglycans
702.P6   Polysaccharides
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702.S6   Sorbitol
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Lipids
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          Cf. TX553.L5 Lipids as a food constituent

751  General works, treatises, and textbooks
752.A-Z  Special, A-Z
752.A25  Acetic acid
752.A5   Androstane
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    Antihemorrhage vitamin see QP772.V55
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801.E28 Ecstasy (Drug)
801.E325 EDDP (Pyrrrolidine derivative)
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801.I55 Ionophores
(801.I76) Isoprenoid compounds
see QP752.T47
801.K4 Ketones
801.K8 Kynurenic acid
801.L3 Lactic acid
Leucamines see QP801.P7
801.L47 Leukotrienes
801.L53 Lignans
801.L97 Lysergic acid diethylamide
Macromolecules see QP801.P64
Marijuana see QP801.C27
801.M37 Mercapto compounds. Thiols
801.M39 Metformin
801.M42 Methoxyhydroxphenylglycol
801.M425 Methylxanthines
801.M43 Metiamide
801.M45 Mevalonic acid
Milk, Human see QP246
801.N44 Neopterin
801.N48 Nicotine
801.N55 Nitrogen organic compounds
Animal biochemistry
Special substances
Organic substances
Miscellaneous organic substances, A-Z -- Continued
Organo ...

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

801.O74 Orotic acid
801.O8 Oxalic acid
801.P28 Pantethine
801.P36 Penicillin
801.P374 Pentoxifylline
801.P38 Pesticides
801.P39 Phenethylamines
801.P4 Phenols
801.P56 Phosphonic acids
801.P63 Phosphorus organic compounds
801.P634 Phytic acid
801.P636 Phytochemicals
801.P638 Polyamines
801.P639 Polycyclic aromatic hydrocarbons
801.P64 Polymers. Macromolecules
801.P643 Polyurethanes
801.P654 PQQ
801.P68 Prostaglandins
801.P686 Psoralens
801.P69 Pteridines
801.P7 Ptomaines. Leucomaines
801.P8 Purines
801.P85 Pyrimidines
801.P855 Pyrrolizidines
801.P86 Pyruvic acid
801.Q5 Quinones
801.R4 Reductones
801.R47 Retinoids
801.S4 Serotonin
801.S44 Shikimic acid
801.S47 Sialic acid
801.S79 Succinic acid
801.S83 Sugar acids
801.S85 Sulfonic acids
801.T3 Taurine
Tetrahydrocannabinol see QP801.C27
801.T4 Thiocyanates
Thiols see QP801.M37
801.T57 Tobacco
801.T6 Tolylenediamine
801.U24 Ubiquinones
801.U7 Urea
Vitamins see QP771+
801.X45 Xenobiotics
Experimental pharmacology

The Library of Congress has not classed new material on experimental pharmacology in these numbers since approximately 1981.

For works on the physiological effects of chemical substances on the animal body see QP501+
For works on experimental toxicology see RA1199+
For works on experimental pharmacology in general see RM301.25+

Individual chemical substances

see QP525+ for the physiological effects of individual chemical substances on the animal body
For works on the physiological effects of drugs on the human body see RM300+
Microbiology

1  Periodicals, societies, congresses, serial publications
6  Collected works (nonserial)
9  Dictionaries and encyclopedias
11 Terminology, notation, abbreviations
12 Classification. Nomenclature
   Cf. QR81 Bacteria
   Cf. QR394 Viruses
13 Evolution
   History
21 General works
22.A-Z By region or country, A-Z

Biography
30 Collective
   e.g.
31.F5 Fleming, Alexander
31.K6 Koch, Robert
Pasteur, Louis see Q143.P2

General works, treatises, and textbooks
41 Through 1969
41.2 1970-
   By discipline
46 Medical microbiology
   Cf. QR67+ Diagnostic technique
   Cf. QR171.A1+ Microorganisms in the animal body
   Cf. RC109+ Infections and parasitic diseases
46.5 Pharmaceutical microbiology
47 Dental microbiology
   Cf. RK325 Oral sepsis
48 Sanitary microbiology
   Cf. QR105+ Aquatic microbiology
   Cf. TD1+ Sanitary engineering
Veterinary microbiology see SF780.2
51 Agricultural microbiology
   Cf. QR111+ Soil microbiology
   Cf. QR121 Dairy microbiology
   Cf. QR351 Microorganisms of plant diseases
Geomicrobiology see QR103
Industrial microbiology
   Cf. QR115+ Food microbiology
   Cf. QR135+ Microbial degradation
   Cf. QR151+ Microorganisms of fermentation
   Cf. TP248.27.M53 Microbial biotechnology
53 General works, treatises, and textbooks
53.5.A-Z By industry or products, etc., A-Z
53.5.A44 Alloys
53.5.C73 Coal
53.5.C76 Cosmetics
53.5.P48 Petroleum
53.5.R34 Railroads
   Including railroad tracks, railroad ties, railroad beds, etc.
54 Pictorial works and atlases
56 Popular works
57 Juvenile works
58 Addresses, essays, lectures
60 Special aspects of the subject as a whole
   Study and teaching. Research
61 General works
61.5 Problems, exercises, examinations
61.7 Experiments
62 Outlines, syllabi
63 Laboratory manuals

Laboratories
   Cf. R108 Medical laboratories
64.A1 General works
64.A3-Z By region or country, A-Z
   Subarrange each country by Table Q6
64.5 Culture collections
64.7 Safety measures
64.8 Quality control

Technique
65 General works
   Culture technique
66 General works
66.3 Culture media
66.4 Continuous culture
67 Diagnostic technique
67.2 Diagnostic bacteriology

Microscope technique
   Cf. QH201+ Microscopy
68 General works
68.5.A-Z Special, A-Z
68.5.E45 Electron microscopy
69.A-Z Special topics, A-Z
69.A56 Anti-infective agent testing
69.A57 Antibiotic testing
69.A58 Antiinfective agent testing see QR69.A56
69.A88 Automation
69.B53 Bioluminescence assay
69.C3 Cataphoresis
69.C79 Cryopreservation
69.D35 Data processing
69.D48 Disintegration
69.D54 DNA probes
69.E43 Electric impedance measurement
69.E58 Enzyme-linked immunosorbent assay
69.F56 Flow cytometry
69.F7 Freeze-drying. Drying
69.G27 Gas chromatography
69.H54 High performance liquid chromatography
69.I53 Inactivation
69.M33 Mass spectrometry
69.M48 Microbiological assay
69.M5 Micrurgy
69.N83 Nuclear magnetic resonance spectroscopy
69.P6 Population counts
69.S7 Staining
69.S75 Sterilization
69.V53 Viability counts
71 Laboratory equipment
72  Statistical methods
72.5  Handbooks, manuals, etc.
     Microbial genetics see QH434
73  Diversity and variation
     Cf. QR392 Virus variation
73.4  Development
73.5  Differentiation
73.6  Aggregation
73.7  Cell cycle
73.8  Microbial populations
74  Molecular microbiology
74.5  Protista
     Cf. QK564+ Algae
     Cf. QK600+ Fungi
     Cf. QK635.A1+ Slime molds
     Cf. QL366+ Protozoa
74.8  Bacteria
     General works
     Morphology. Ultrastructure
     General works
75  Size
75.3  Shape
76  Protoplasm
76.3  Protoplasts
76.5  Nuclear materials
76.6  Plasmids
76.7  Pigments
77  Cell membranes
    Cell walls
77.3  General works
77.35  Cell surfaces
77.5  Capsules. Slime layers. Glycocalyces
78  Flagella
78.5  Pili
79  Spores
79.5  Colonies
80  Terminology, notation, abbreviations
81  Classification. Nomenclature
81.5  Catalogs and collections
81.7  Evolution
82.A-Z  Systematic divisions. By family or higher taxa, A-Z
     Class individual genera under the family.
     For unassigned genera and species see QR82.Z9
     For bacteria of specific diseases see QR201.A+
82.A3  Achromatiaceae
82.A35  Actinomycetaceae
82.A355  Actinoplanaeaceae
82.A39  Aegyptianella
     Aerobacter cloacae see QR82.E6
82.A43  Aeromonadaceae
82.A69  Archaebacteria
82.A9  Azotobacteraceae
82.B3  Bacillaceae
82.B35  Bacteroidaceae
82.B4  Beggioatoaceae
82.B95  Brucellaceae
Systematic divisions. By family or higher taxa, A-Z -- Continued

82.C35 Chlamydiaceae
82.C4 Chlorobiaceae
82.C45 Chromatiaceae
82.C6 Corynebacteriaceae
82.C88 Cystobacteriaceae
82.C9 Cytophagaceae
82.D37 Deinococcaceae
82.D4 Dermatophilaceae
82.E6 Enterobacteriaceae
82.F7 Frankiaceae
82.H35 Halobacteriovoraceae
82.L3 Lactobacillaceae
82.L4 Leucotrichaceae
82.M38 Methylobacteriaceae
82.M4 Methylocnonadaceae
82.M45 Microbacteriaceae
82.M5 Micrococaceae
82.M55 Micromonosporaceae
82.M8 Mycobacteriaceae
82.M95 Myxococcaceae
82.N4 Neisseriaceae
82.N5 Nitrobacteriaceae
82.N6 Nocardiaee
82.P25 Pasteurellaceae
82.P44 Pelonemataceae
82.P45 Peloplocaceae
82.P47 Peptococcaceae
82.P6 Polyangiaceae
82.P7 Propionibacteriaceae
82.P78 Pseudomonadaceae
82.R45 Rhizobiaceae
82.R46 Rhodospirillaceae
82.R47 Rhodospirillales
82.S5 Simonsiellaceae
82.S6 Spirillaceae
82.S7 Spirochaetaceae
82.S78 Streptococcaceae
82.S8 Streptomycetaceae
82.T7 Treponemataceae
82.V4 Veillonellaceae
82.V53 Vibrionaceae
82.Z9 Genera and species as yet unassigned (not A-Z)

Physiology
84 General works
84.5 Growth
84.5 Cf. QR66+ Culture technique
84.7 Psychrophilic bacteria
84.8 Thermophilic bacteria
86 Nutrition
86.5 Reproduction
86.5 Metabolism
88 General works
88.2 Autotrophy
88.3 Biosynthesis
Bacteria

Physiology

Metabolism -- Continued

88.4 Methylotrophy
88.5 Photosynthesis
  Cf. QK882 Plant physiology
88.7 Chemoautotrophy
  Respiration
89 General works
  Anaerobic
89.7 Nitrogen fixation
  Cf. TP245.N8 Chemical engineering

90 Enzymes
92.A-Z Other substances, A-Z
92.A3 Acetic acid
92.A49 Alkanes
92.A6 Amino acids
92.B3 Bacteriocins
92.B7 Branched chain amino acids
92.C27 Calcium
92.C3 Carbohydrates
92.C33 Carbon dioxide
92.C55 Chlorinated aromatic compounds
92.C57 Citric acid
92.C74 Creatine
92.D45 Deoxyribonucleic acid. DNA
  DNA see QR92.D45
92.F3 Fatty acids
92.F87 Furans
92.G35 Galactose
92.G5 Glucose
92.H6 Hormones
92.H8 Hydrogen
92.I4 Immunoglobulin-binding proteins
92.I7 Iron
92.L5 Lipids
92.M45 Metals
92.M46 Methane
92.M47 Methyl groups
92.M5 Minerals
92.N5 Nicotinic acid
92.N6 Nitrogen
92.N8 Nucleic acids
92.N82 Nucleotides
  Oxygen see QR89+
92.P37 Peptides
92.P39 Peptidoglycans
92.P4 Phenols
92.P45 Phosphates
92.P58 Poly-beta-hydroxyalkanoates
92.P59 Polymers
92.P6 Polysaccharides
92.P7 Propionic acid
  Protein A, Staphylococcal see QR92.S68
92.P75 Proteins
92.P87 Purines
Bacteria
  Physiology
  Metabolism
    Other substances, A-Z -- Continued
      92.S3 Salts
      92.S53 Siderophores
      92.S68 Staphylococcal protein A
      92.S7 Steroids
      92.S79 Sugars
      92.S8 Sulfur
      92.V5 Vitamins
      92.X35 Xanthan gum
  93 Anhydrobiosis
  94 Heat production
  95 Light production
  96 Motility. Irritability
    96.5 Interaction. Communication
  96.8 Adhesion
    Environmental factors
      97.A1 General works
      97.A2-Z By factor, A-Z
      97.A3 Acidity. Alkalinity. Hydrogen-ion concentration
        Alkalinity see QR97.A3
      97.A57 Anti-infective agents
      97.A58 Antibiotics
      97.B32 Bactericides
      97.C3 Carbon dioxide
      97.C5 Chemicals
      97.E5 Electrolytes
      97.H4 Heat
        Hydrogen-ion concentration see QR97.A3
      97.L5 Light
      97.M34 Magnetism
      (97.M6) Moisture
        see QR97.W37
      97.O8 Oxygen
      97.P47 Pesticides
      97.P7 Pressure
      97.R3 Radiation
      97.S3 Salinity
      97.T4 Temperature
        Cf. QR84.7 Psychrophilic bacteria
        Cf. QR84.8 Thermophilic bacteria
      97.W37 Water. Moisture
      97.X46 Xenobiotics
    Antibiosis
      Cf. QP801.A63 Biochemistry of antibiotics
      Cf. QR69.A57 Testing
      Cf. QR175 Virulence
      Cf. RM265+ Antibiotic therapy
      Cf. RM666.A+ Pharmacology of individual antibiotic drugs
      Cf. RS431.A6 Pharmaceutical chemistry of antibiotics
  99 General works
  99.5 Resistance
  99.6 Periodicals. Serials
Cyanobacteria -- Continued

99.62
  Congresses
99.63
  General works, treatises, and textbooks
99.64
  Pictorial works and atlases
99.65
  Popular works
99.66
  Juvenile works
99.67
  Classification. Nomenclature
99.69.A-Z
  Special topics, A-Z
99.69.B55
    Blooms
      Cyanobacterial blooms see QR99.69.B55
99.7.A-Z
  Systematic divisions. By family, A-Z
  99.7.E57
    Entophysalidaceae
  99.7.N67
    Nostocaceae
  99.7.O82
    Oscillatoriales
  99.7.S39
    Scytonemataceae
  99.7.S85
    Stigonemataceae
99.8.A-Z
  By region or country, A-Z

Microbial ecology. Geographical distribution
  100
    General works, treatises, and textbooks
  100.8.A-Z
    By type of relationship, A-Z
  100.8.B55
    Biofilms
  100.8.C65
    Competition
  100.8.D46
    Denitrification
      Including denitrifying bacteria
  100.8.M37
    Mats
  100.8.S9
    Symbiosis

By type of environment
  100.9
    Extreme environments (General)
  101
    Air and dust
  103
    Geomicrobiology. Microbial effect on geological processes
      Water. Aquatic microbiology
        105
          General works
        105.5
          Freshwater
            Cf. TD384 Water supply analysis
          Seawater. Marine microbiology
            106
              General works
            106.5
              Hydrothermal vents
            107
              Hot springs. Calderas
          Soil
            Including soil fungi
            Cf. QK604.2.M92 Mycorrhizal fungi
        111
          General works
        113
          Root nodules
            Cf. S652 Soil inoculation

Foods
  Cf. TP371.2+ Preservation in food processing
  Cf. TX599+ Food preservation in the home
  115
    General works
  116
    Eggs
  117
    Meat
  118
    Fish. Shellfish
  119
    Breads. Cereals
  121
    Dairy products
      Cf. SF253 Milk analysis
  122
    Fruit. Vegetables (General)
  123
    Canned foods
Microbial ecology
By type of environment
Foods -- Continued
129.A-Z  Other food products, A-Z
129.B44  Beer
129.C6   Corn oil
129.F7   Fruit juice
129.K56  Kimchi
129.P76  Processed foods
129.R44  Refrigerated foods
129.S8   Sugar
129.T65  Tomatoes
130     Space microbiology
131.A-Z  Other environments, A-Z
131.G58  Glaciers
Pathogenic fungi see QR245+
Microbial degradation
135     General works
135.5.A-Z Special substances, A-Z
135.5.C65 Compost
135.5.M37 Metals
135.5.P47 Pesticides
148     Microbiological chemistry
Cf. QK861+ Plant biochemistry
Cf. QP501+ Animal biochemistry
Cf. QR88.3 Bacterial biosynthesis
Cf. QR467 Biochemistry of viruses
Microorganisms of fermentation. Yeasts, etc.
   Including diseases of wine and beer
   Cf. TP371.44 Preserving food by fermentation
   Cf. TP568+ Brewing
151     General works
(155)    Yeasts and yeastlike fungi in the body
   see QR171
160     Microorganisms of cellulose and other plant products
Microorganisms in the animal body
   Cf. QR201.A+ Pathogenic microorganisms
   Cf. QR245+ Pathogenic fungi
   Cf. QR301+ Pathogenic fungi
   Cf. RM666.P835 Probiotics
171.A1  General works, treatises, and textbooks
171.A2-Z By organ or system, etc., A-Z
171.A43  Alimentary canal
171.B5   Blood
171.E9   Eye
171.F4   Feces. Manure
171.F45  Female generative organs
171.G29  Gastrointestinal system
171.G4   Generative organs
   Generative organs, Female see QR171.F45
171.G47  Germplasm
171.I6   Intestines
171.L8   Lungs
   Manure see QR171.F4
   Mouth see QR47
171.N3   Nasopharyngeal system
Microorganisms in the animal body
   By organ or system, etc., A-Z -- Continued

171.R85  Rumen
171.S5   Skin
171.S8   Stomach
      Teeth see QR47
171.U7   Urinary system
175      Virulence. Pathogenic action in general
      Cf. QP631+ Toxins (Animal biochemistry)
177      Drug resistance
      Immunology
         Cf. QL362.85 Invertebrates
         Cf. QL638.97 Fishes
         Cf. QP252.5 Reproductive immunology
         Cf. QP356.47 Neuroimmunology
         Cf. RA638 Public health
         Cf. RC581+ Immunologic diseases
         Cf. RG557 Obstetrics
         Cf. RM270+ Immunotherapy
         Cf. RM370+ Immunopharmacology
         Cf. SF757.2+ Veterinary immunology

180      Periodicals, societies, serial publications
180.2    Collected works (nonserial)
180.3    Congresses
180.4    Dictionaries and encyclopedias
         Biography
180.7    Collective
180.72.A-Z Indivdual, A-Z
181      General works, treatises, and textbooks
181.5    Addresses, essays, lectures
181.7    Popular works
181.8    Juvenile works
182      Special aspects of the subject as a whole
182.2.A-Z Special topics, A-Z
182.2.A54 Animal models
         Including specific animal models
182.2.C65 Computer simulation
182.2.E94 Evolution
182.2.I46 Immunoinformatics
182.2.M36 Mathematical models
182.2.N86 Nutritional aspects
      Space flight see RC1151.I45
182.2.S7 Statistical methods
      Study and teaching. Research
182.5    General works
182.55   Outlines, syllabi
182.6    Problems, exercises, examinations
      Laboratory methods
         For specific tests see QR187.A2+
183      General works
183.2    Tracers
183.5    Immunotechnology
183.6    Immunoochemistry
         Cf. QR187.I45 Immunocytochemistry
183.8    Immunotaxonomy
      Immunogenetics
Immunology
   Immunogenetics -- Continued
   184
       General works
   184.2
       Human immunogenetics
           Histocompatibility. H-2 locus
   184.3
       General works
   184.315
       Major histocompatibility complex
   184.32
       HLA antigens
           Minor histocompatibility antigens
   184.34
       General works
   184.35
       H-Y antigen
   184.4
       Ir genes. Ia antigens
   184.5
       Developmental immunology
   184.6
       Phylogeny of the immune system
   Types of immunity
   185.2
       Natural
       Acquired
   185.3
       General works
   185.33
       Maternally acquired immunity
   185.35
       Immunologic memory
   185.4
       Humoral
   185.5
       Cellular
   185.6
       Molecular aspects. Molecular immunology
   Immune structures
   185.7
       General works
   185.8.A-Z
       By type, A-Z
           Antibody-drug conjugates see RS201.A56
           Antibody-toxin conjugates
   185.8.A58
       Antigen presenting cells
   185.8.A59
       B cells
   185.8.B15
       Biological response modifiers
   185.8.B54
       Chemokines
   185.8.C45
       Complement
           Cf. QR187.C6 Complement fixation
   185.8.C95
       Cytokines
   185.8.D45
       Dendritic cells
   185.8.E58
       Eosinophils
           Cf. QP95.3 Physiology
   185.8.F33
       Fc receptors
   185.8.G4
       Germinal centers
   185.8.G73
       Granulocytes
           Cf. QP95.4 Physiology
   185.8.H93
       Hybridomas
           Cf. QH451 Cell fusion
   185.8.I45
       Immune complexes
   185.8.I56
       Interleukins
           Including interleukin-1, interleukin-2, etc.
   185.8.K54
       Killer cells
   185.8.L35
       Langerhans cells
   185.8.L48
       Leucocytes
           Cf. QP95+ Physiology
   185.8.L49
       Leukolysins
   185.8.L9
       Lymphocytes
   185.8.L93
       Lymphokines
   185.8.M28
       Macrophage migration inhibitory factor
   185.8.M3
       Macrophages
Immunology

Imune structures

By type, A-Z -- Continued

185.8.M35 Mast cells
185.8.M36 Mathematical models
185.8.N47 Neutrophils
185.8.O7 Opsonin
  Cf. QR187.P4 Phagocytosis
185.8.P45 Phagocytes
  Cf. QR187.P4 Phagocytosis
185.8.P58 Platelets
  Cf. QP97+ Physiology
185.8.S65 Spleen
185.8.S96 Suppressor cells
185.8.T2 T cells
185.8.T24 Th cells
185.8.T48 Thrombocytes see QR185.8.P58
185.8.T48 Thymus
185.8.T67 Transfer factor
  Cf. RM282.T7 Therapeutic use
185.8.T7 Trophoblast
185.8.T84 Tumor necrosis factor
185.9.A-Z By organ or system, etc., A-Z
185.9.G37 Gastrointestinal system
185.9.L58 Liver
185.9.M83 Mucous membrane
185.95 Immune recognition
Immune response

Class here works on the mechanism of immune response in humans or laboratory animals
For works on the immunology of specific animals or groups of animals, other than laboratory
animals, see the systematic divisions in QL. For works on the immune response to particular
diseases or parasites, see the disease or parasite in R or SF

186 General works
186.3 Idiotypic networks

Antigens

186.5 General works
186.6.A-Z By type, A-Z
186.6.B33 Bacterial antigens
186.6.C37 Blood group antigens see QP98
186.6.C42 Carbohydrates
186.6.C42 CD antigens
  Including CD23 antigen, CD26 antigen, etc.
186.6.C44 Cell surface antigens
186.6.F85 Fungal antigens
186.6.G73 Granulocyte antigens
186.6.H3 H-Y antigen see QR184.35
186.6.H3 Haptens
186.6.H42 Heat shock proteins
186.6.L94 Histocompatibility antigens see QR184.3+
186.6.L94 HLA antigens see QR184.32
186.6.L94 Lysozyme
186.6.P38 Parasite antigens
186.6.P76 Proteins
186.6.S64 Spermatozoa
186.6.S94 Superantigens
186.6.S95 Synthetic antigens
Immunology
Antigens
By type, A-Z -- Continued
186.6.T48 Thy-1 antigen
186.6.T57 Tissue-specific antigens
186.6.T6 Toxins
186.6.T65 Toxoids
186.6.V57 Tumor antigens see QR188.6
Viral antigens
Antibodies. Immunoglobulins
186.7 General works
186.8.A-Z By type, A-Z
186.8.A2 IgA. Immunoglobulin A
186.8.D2 IgD. Immunoglobulin D
186.8.E2 IgE. Immunoglobulin E
186.8.G2 IgG. Immunoglobulin G
186.8.M2 IgM. Immunoglobulin M
Autoantibodies
186.82 General works
186.83.A-Z By type, A-Z
186.83.P48 Phospholipid antibodies
186.83.R48 Rheumatoid factor
186.85 Monoclonal antibodies
Cf. RM282.M65 Therapeutic use
186.87 Recombinant antibodies
186.9 Specificity
Antigen-antibody reactions
Class tests with type of reaction
187.A1 General works, treatises, and textbooks
187.A2-Z By type, A-Z
187.A3 Agglutination
187.A8 Autolysis
187.B3 Bacteriolysis
187.C48 Chemiluminescence immunoassay
187.C6 Complement fixation
187.C65 Conglutination
187.D3 Danysz phenomenon
187.F58 Fluorescent antigen technique
187.H38 Hemagglutination tests
187.H4 Hemolysis
187.H45 Hemolytic plaque technique
187.H57 Histocompatibility testing
187.I44 Immunoadsorption
187.I45 Immunocytochemistry
187.I46 Immunodiffusion
187.I47 Immunelectrophoresis
187.I48 Immunofluorescence
187.I482 Immunogold labeling
187.I486 Immunophenotyping
187.L47 Leucocyte adherence inhibition test
187.P4 Phagocytosis
187.P7 Precipitation
187.S4 Sedimentation
187.3 Adjuvants
187.4 Chemotaxis
187.5 Interferons
Immunology -- Continued

188
Hypersensitivity. Allergy
Cf. RC583+ Diseases

188.3
Autoimmunity
For autoantibodies see QR186.82+
Cf. RC600 Autoimmune diseases

188.35
Immunodeficiency
Cf. RC606+ Medicine
Cf. RJ387.D42 Pediatrics

188.4
Tolerance
Immunosuppression

188.45
General works

188.46
Virus-induced immunosuppression

188.5
Radiation immunology

188.6
Tumor immunology
Cf. RC268.3 Immunological aspects

188.8
Transplantation immunology
Cf. QQ89 Physiology of the tissues
Cf. RD120.6+ Surgery

Vaccines
Cf. RA638 Vaccination in public health
Cf. RM281 Vaccinotherapy

189
General works, treatises, and textbooks

189.2
Synthetic vaccines

189.5.A-Z
By disease or type, A-Z

189.5.A33
AIDS (Disease)

189.5.A56
Anti-idiotypic

189.5.B33
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| .A3  | Ag  | Silver (Argentum)                  |
|      |     | Alabamine see Q1 .A8               |
| .A4  | Al  | Aluminum                           |
| .A5  | Am  | Americium                          |
|      |     | Antimony see Q1 .S3                |
|      |     | Argentum see Q1 .A3                |
| .A6  | Ar  | Argon                               |
| .A7  | As  | Arsenic                             |
| .A8  | At  | Astatine (Alabamine)               |
| .A9  | Au  | Gold (Aurum)                        |
| .B1  | B   | Boron                               |
| .B2  | Ba  | Barium                              |
| .B4  | Be  | Beryllium (Glucinum)               |
| .B46 | Bh  | Bohrium                             |
| .B5  | Bi  | Bismuth                             |
| .B55 | Bk  | Berkelium                           |
| .B7  | Br  | Bromine                             |
| .C1  | C   | Carbon                              |
| .C2  | Ca  | Calcium                             |
| .C3  | Cd  | Cadmium                             |
|      |     | Cassiopeum see Q1 .L8               |
|      |     | Celtium see Q1 .H5                  |
| .C4  | Ce  | Cerium                              |
| .C45 | Cf  | Californium                         |
| .C5  | Cl  | Chlorine                            |
| .C55 | Cm  | Curium                              |
| .C57 | Cn  | Copernicium                         |
| .C6  | Co  | Cobalt                              |
| .C7  | Cr  | Chromium                            |
| .C8  | Cs  | Cesium                              |
|      |     | Columbium see Q1 .N3                |
| .C9  | Cu  | Copper (Cuprum)                     |
| .D2  | Db  | Dubnium                             |
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| .D8  | Dy  | Dysprosium                          |
| .E6  | Er  | Erbium                              |
| .E7  | Es  | Einsteinium                         |
| .E8  | Eu  | Europium                            |
| .F1  | F   | Fluorine                            |
| .F4  | Fe  | Iron (Ferrum)                       |
| .F5  | Fm  | Fermium                             |
|      |     | Ferrum see Q1 .F4                   |
| .F7  | Fr  | Francium                            |
| .G2  | Ga  | Gallium                             |
| .G4  | Gd  | Gadolinium                          |
| .G5  | Ge  | Germanium                           |
|      |     | Glucinum see Q1 .B4                 |
|      |     | Gold see Q1 .A9                     |
| .H1  | H   | Hydrogen                            |
| .H4  | He  | Helium                              |
| .H5  | Hf  | Hafnium (Celtium)                   |
| .H6  | Hg  | Mercury (Hydrargyrum)               |
| .H7  | Ho  | Holmium                             |
| .H8  | Hs  | Hassium                             |
|      |     | Hydrargyrum see Q1 .H6              |
| .I1  | Iodine       |
| .I5  | Indium       |
| .I7  | Iridium      |
| .K1  | Potassium (Kalium) |
| .K6  | Krypton      |
| .L2  | Lanthanum    |
| .L5  | Lithium      |
| .L8  | Lutetium (Cassiopeium) |
| .L9  | Lawrencium   |
| .M3  | Mendelevium  |
| .M4  | Magnesium    |
| .M6  | Manganese    |
| .M7  | Molybdenum   |
| .N1  | Nitrogen     |
| .N2  | Sodium (Natrium) |
| .N3  | Niobium (Columbium) |
| .N4  | Neodymium    |
| .N5  | Neon         |
| .N6  | Nickel       |
| .N65 | Nobelium     |
| .N7  | Neptunium    |
| .O1  | Oxygen       |
| .O7  | Osmium       |
| .P1  | Phosphorus   |
| .P2  | Protactinium |
| .P3  | Lead (Plumbum) |
| .P4  | Palladium    |
| .P5  | Promethium (Illinium) |
| .P6  | Polonium     |
| .P7  | Praseodymium, Didymium |
| .P8  | Platinum     |
| .P9  | Plutonium    |
| .R1  | Radium       |
| .R3  | Rubidium     |
| .R4  | Rhenium      |
| .R45 | Rutherfordium |
| .R47 | Roentgenium  |
| .R5  | Rhodium      |
| .R6  | Radon (Niton) |
| .R9  | Ruthenium    |
| .S1  | Sulfur       |
| .S3  | Antimony (Stibium) |
| .S4  | Scandium     |
| .S5  | Selenium     |
| .S55 | Seaborgium   |
| .S6  | Silicon      |
| .S65 | Samarium     |
| .S7 | Tin (Stannum) |
| .N2 | Sodium see Q1 |
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| .T35 | Technetium |
| .T4 | Tellurium |
| .T5 | Thorium |
| .S7 | Tin see Q1 |
| .T6 | Titanium |
| .T7 | Thallium |
| .T8 | Thulium |
| .W1 | Tungsten see Q1 |
| .U7 | Uranium |
| .V2 | Vanadium |
| .W1 | Tungsten (Wolfram) |
| .X4 | Xenon |
| .Y1 | Yttrium |
| .Y3 | Ytterbium |
| .Z6 | Zinc |
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   Superconductors: QC611.98.Z56
Zinc alloys
   Analytical chemistry: QD137.Z5
Zinc enzymes
   Animal biochemistry: QP601.75.Z54
Zinc ores
   Mineralogy: QE390.2.Z54
Zinc proteins
   Animal biochemistry: QP525.55
Zingiberaceae: QK495.Z65
Zippiidae: QL737.C438
Zircon
   Mineralogy: QE391.Z7
Zirconium
   Chemical element: Q1 .Z7
   Zirconium oxide
   Spectra: QC464.Z57
Zoantharia: QL377.C7
Zoarcidae: QL638.Z6
Zodiariidae: QL458.42.Z63
Zodiac
   Astronomy: QB803
   Zodiacal light: QB761
Zoisite
   Mineralogy: QE391.Z8
Zones, Ecological: QH541.15.E248
Zones of climate
  Meteorology: QC981.8.Z6
Zonitidae: QL430.5.Z6
  Paleozoology: QE809.Z9
Zoo animals: QL77.5
Zooflagellates: QL368.Z66
Zoological illustrating: QL46.5
Zoology: QL1+
  Secondary education: QL51+
Zoology as a profession: QL50.5
Zoology, Medical: QL99
Zooastrigia: QL368.A12
Zoophyta
  Coelenterata: QL379
Zooplankton: QL123
  Freshwater: QL143
Zooplagellates: QL368.Z66
Zopheridae (Ironclad beetles): QL596.Z66
Zoraptera
  Zoology: QL515.5
Zoropsidae: QL458.42.Z67
Zosteraceae: QK495.Z7
Zosteropidae: QL696.P298
Zygaenidae: QL561.Z9
Zygnemataceae: QK569.Z8
Zygmamatales: QK569.Z82
Zygophyllaceae: QK495.Z9
Zythiaceae: QK625.Z9