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INTRODUCTION.

THIS Subject Catalogue of the Cruickshank Science Library contains the titles of about one-third of the books in the Departments of Pure Science (Mathematics, Astronomy, Physics, Chemistry, Geology, Palæontology, Biology, Botany, Zoology, Anthropology) and Agriculture, including Forestry and Veterinary Science—being those which it is specially desired to bring under the notice of the student. The remaining two-thirds are titled either in the author catalogues printed in 1873-74, 1887 and 1897, or in the manuscript sheaf catalogues (both of authors and of subjects), which may be consulted in the Library.

To keep the booklet of a convenient size, the titles have been cut down as far as is consistent with clearness. Authors' pre-names are entered as initials only, while the names of editors and of translators are omitted, save in exceptional cases. No cross-references are given from the names of joint authors, and books of composite authorship have not been analysed.

The system of classification and notation here employed is a modification of that devised by Mr. Melvil Dewey, which is in use in many libraries in all parts of the world. Certain alterations have been introduced, suggested by the publications of the Institut International de Bibliographie of Brussels, and the whole has been adapted to the special requirements of a Scottish Academic Library.

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It is impossible to devise a classification that will satisfy every one; but it must be borne in mind that a classification of actual books is a different thing from a classification of theoretical knowledge, and that a general agreement among librarians to adopt some one system is a practical testimony in its favour so strong as to outweigh arguments against it, arising from dissatisfaction with minor details of the scheme.

The merits of Mr. Dewey's system are briefly these :—

1. It permits an unlimited subdivision of every class.
2. It permits an unlimited intercalation of new books among those already on the shelves.
3. It possesses a simple notation, which has acquired an international significance.
4. The notation is in a high degree mnemonic.
5. The notation, as a library grows, can be made more minute, with a minimum of change.

The modified system used here divides books into ten main classes, which are numbered as decimal fractions of the sum total of printed matter regarded as unity (1'). Thus :—

·0 denotes books of a general character, not confined to any one subject.

·1 denotes books on Philosophy.

·2 " " Religion.

·3 " " Sociology.

·4 " " Philology.

·5 " " Pure Science.

·6 " " Applied Science.

·7 " " Fine Arts.

·8 " " Literature.

·9 " " History.

Each class can be subdivided by simply carrying on the decimal to as many places as may be desired. Thus :—

·5 Pure Science in general.

·51 Mathematics.

·516 Co-ordinate Geometry.

·5162 Plane curves.

·51623 Ellipse.

·5164 Curved surfaces.

·517 Infinitesimal analysis.

·52 Astronomy.

INTRODUCTION .

·6	Applied Science in general.
·63	Agriculture.
·631	Soils.
·6316	Fertilisers.
·63167	Chemical.
6317	Machines.
·634	Forestry.
·65	Commerce.

[See Table A : Subdivisions of '5 and '6.]

When the number of books in any class is great, it may be convenient to arrange them in groups according to some characteristics other than their common subject. Thus:—

Divisions by Form.—Books on say Chemistry would be all marked '54, but these may differ much in the form of treatment of the subject—systematic manuals, dictionaries, essays, magazines, etc. If we insert a cipher to show that our new groups are not limited to any of the subdivisions of Chemistry, we may write:—

·5402	Manual of Chemistry.
·5403	Dictionary of Chemistry.
·5404	Essays on Chemistry.
·5405	Magazine of Chemistry.
·5406	Transactions of a Chemical Society.

[See Table B : Form divisions.]

Divisions by Place.—Books on say Geology would be all marked '55, but these may deal with different localities or with different strata. If we use brackets to indicate this further departure from our original method, we may write:—

·55(115)	Geology of coal strata.
·55(2343)	Geology of the Alps.
·55(8)	Geology of S. America.
·55(85)	Geology of Peru.

[See Table C : Place divisions.]

Divisions by Relation.—A book may deal with two or more subjects, or with a subject in its relation to some other topic. After assigning to the book the number denoting its

INTRODUCTION

first or its principal subject, we may link on to this number, by means of a colon, the number denoting the second or the subsidiary subject. Thus:—

·5 : 8 Science and Literature.

·843 : 17 Ethics of French fiction.

These different methods of division may be freely used in combination. Thus:—

·51(42 : 44)04 Essay on Mathematics in Britain and France.

So long as only the ordinary digits are used in the class numbers, the arrangement of books on the shelves presents no difficulty. They follow each other in the ascending order of the decimal fractions employed. Thus:—

·5

·504

·53

·5726

·61

But when brackets and colons are used as well as digits, it is convenient to adopt the convention that these come in the alphabetical order of their names (*b*racket, *c*olon, *d*igit), the cipher taking precedence of all three on the familiar indexing principle, “Nothing precedes something”. Thus:—

·5504

·55(115)

·55(85)

·55 : 59

·55 : 7

·553

A book can stand in only one place on the shelves and can have but one class number. Its title, however, may be repeated in a catalogue in as many classes as it has subjects. When entered in the class of its main or first named subject, the number is printed in ordinary roman type ; when entered also in any other class (where the book does *not* stand) the number is printed in italics. Thus:—

·55 GEOLOGY.

55 : 56(41) Geology and Palæontology of Scotland.

INTRODUCTION

·56 PALÆONTOLOGY.

·55 : 56(41) Geology and Palæontology of Scotland.

In addition to the significant class number, each book receives a book mark which serves to distinguish it from all other books belonging to the same class. This book mark almost always consists of the first three letters of the author's surname, or of a word selected, according to certain rules, from the title. As the author's surname or the selected word appears first in the **clarendon** type at the beginning of each entry of the catalogue, the book mark has not been reprinted at the side. In the case, however, of periodicals and publications of societies, where the same first words (*Journal*, *Annals*, etc.) recur with frequency, it is necessary to choose, more or less arbitrarily, certain letters, usually initials, to represent the titles. These letters are printed immediately after the class number of each book. Thus:—

- 504 **Helmholtz, A. von.** Popular lectures on scientific subjects.
·5(26) **Challenger.** Report on scientific results of voyage.
·5805 A.B. **Annals of botany.**
·5806 L.J. **Linnean Society.** Journal.

The actual book mark of the first of these is **Hel**, of the second **Cha**.

Certain groups of books, though dealing with different subjects, it has been found convenient not to disperse. These are denoted by distinctive letters placed immediately *before* the class numbers. Thus:—

B.M. = British Museum publications.

R.S. = Royal Society's publications.

Ref. = Reference books, bearing *red* labels, and not to be removed from the library.

f. = folio books, placed on special shelves.

p. = pamphlets, placed in boxes.

It is, of course, not expected that readers can remember all the numbers corresponding to the different subjects. A

INTRODUCTION

full alphabetical index of classes and sub-classes is appended, forming a key, not merely to this catalogue, but to the books themselves as they stand on the shelves, where the order of ascending decimals coincides exactly with that followed in the catalogue. Periodicals and transactions are, however, shelved apart from books of a non-serial character.

A second index is added of author's names.

The general editing of this Subject Catalogue has been entrusted to Miss Helen Paterson, Chief Assistant in the University Library.

The different lists have had the benefit of revision by the teachers of the several subjects.

P. J. A.

October, 1921.

TABLE A.

SUBDIVISIONS OF '5 AND '6.

'5 PURE SCIENCE.

'5 Science, General.

- '50 Form divisions (as in Table B).
- '5(.) Regional divisions (as in Table C).
- '5: Relational divisions.

'5I Mathematics.

'5II Arithmetic.

- '5II96 Tables.

'5I2 Algebra.

- '5I28 Higher Algebra.
- '5I28I Theory of numbers.
- '5I282 Theory of equations.
- '5I283 Determinants.
- '5I286 Groups.
- '5I296 Tables.

'5I3 Geometry.

- '5I3I Plane Geometry.
- '5I322 Geometrical Conics.
- '5I35 Modern Geometry.
- '5I38 Non-Euclidean Geometry.

'5I4 Trigonometry.

- '5I45 Plane Trigonometry.
- '5I46 Spherical Trigonometry.
- '5I496 Tables.

'5I5 Descriptive Geometry.

- '5I56 Perspective.

TABLE A : SUBDIVISIONS OF '5

'516	Co-ordinate Geometry.
'5163	Three dimensions.
'5165	Modern Co-ordinate Geometry.
'5168	Vectors.
'517	Infinitesimal Analysis.
'5172	Differential Calculus.
'5173	Integral Calculus.
'51736	Elliptic functions.
'51738	Differential equations.
'5174	Calculus of Variations.
'5175	Calculus of Functions.
'5176	Calculus of Finite Differences.
'5178	Complex Variables.
'519	Probabilities.
'5196	Errors of observations.
'52	Astronomy.
'521	Theoretical Astronomy.
'5211	Solar system.
'5215	Planets.
'5216	Satellites.
'5217	Comets.
'522	Practical Astronomy.
'5221	Observations.
'5222	Instruments.
'5227	Spherical astronomy.
'523	Descriptive Astronomy.
'5231	Universe.
'5232	Solar system.
'5233	Moon.
'5234	Planets.
'5236	Comets.
'5237	Sun.
'5238	Stellar system.
'525	Earth.
'526	Geodesy.

TABLE A: SUBDIVISIONS OF '5

'527	Navigation.
'528	Ephemerides.
'529	Chronology.
'53	Physics.
'531	Mechanics [<i>see also</i> '621].
'5311	Kinematics.
'5312	Statics.
'5313	Kinetics.
'53136	Rigid bodies.
'532	Hydromechanics.
'5321	Hydrostatics.
'5325	Hydraulics.
'533	Pneumatics.
'5337	Kinetic theory.
'534	Sound.
'5341	Theory of waves.
'5343	Musical sounds.
'5347	Physiological acoustics.
'535	Light.
'5351	Theories.
'5353	Geometrical optics.
'5354	Physical optics.
'5357	Physiological optics.
'5358	Applications.
'53584	Spectrum analysis [<i>see also</i> '5446].
'53585	Photography.
'536.	Heat.
'5361	Theories.
'5365	Temperature.
'5367	Thermodynamics.
'5368	Applications.
'53681	Steam engine [<i>see also</i> '6211].
'537	Electricity.
'5371	Theories.
'5372	Statical.
'5373	Galvanic.

TABLE A : SUBDIVISIONS OF 5

·5377	Electric units.
·5378	Applications.
·5378 ₁	Telegraph.
·5378 ₂	Telephone.
·5378 ₃	Electric light.
·5378 ₅	Electro-metallurgy.
·5378 ₈	Wireless.
·538	Magnetism.
·538 ₁	Theories.
·538 ₃	Electro-magnetism and Electro-dynamics.
·538 ₅	Induction.
·538 ₇	Terrestrial magnetism.
·539	Molecular physics.
·539 ₃	Elasticity.
·54	Chemistry.
·54 ₁	Physical Chemistry.
·54 ₁₁₁	Thermo-Chemistry.
·54 ₁₁₂	Mechanical Chemistry.
·54 ₁₁₃	Electro-Chemistry.
·54 ₁₁₄	Colloid Chemistry.
·54 ₁₂	Atomics.
·54 ₁₂₁	Radioactivity.
·54 ₁₃	Affinity.
·54 ₁₆	Stereo-Chemistry.
·54 ₁₇	Allotropy.
·54 ₁₈	Solubility.
·54 ₁₉	Tables.
·54 ₂	Practical Chemistry.
·54 ₃	Analysis.
·54 ₄	Qualitative.
·54 ₄₆	Spectrum Analysis [<i>see also</i> ·53584].
·54 ₅	Quantitative.
·54 ₅₃	Electrolytic [<i>see also</i> ·53733].
·54 ₅₅	Titrometric.
·54 ₆	Inorganic Chemistry.
·54 ₆₁	Non-metals.
·54 ₆₃	Metals.

TABLE A : SUBDIVISIONS OF '5

'547 **Organic Chemistry.**

[See also '62 : 54 **Agricultural Chemistry** and '66 **Chemical Technology.**]

'548 **Crystallography.**

'549 **Mineralogy.**

'55 **Geology.**

'55(2-9) **Regional geology**

[divided as in Table C].

'551 **Physical geology.**

'5511 General structure of globe.

'5512 Internal action.

'5513 External action.

'55131 Glaciation.

'55135 Deposition and erosion.

'5514 Physical Geögraphy.

'5515 Meteorology.

'5517 Stratigraphical geology.

'55171 Archean, Azoic [etc. as in Table C (11)].

'5518 Structural geology.

'5519 Agents of geological work.

'552 **Lithology, Petrography.**

'5521 Igneous rocks.

'5522 Volcanic.

'5523 Plutonic.

'5524 Metamorphic.

'5525 Aqueous.

'5526 Meteorites.

'5528 Microscopical petrography.

'553 **Economic geology.**

'5531 Ore deposits.

'5532 Carbon minerals.

'5533 Iron ores.

'5534 Ores of other metals.

'5535 Building stones.

'5536 Earths.

'5538 Gems.

TABLE A: SUBDIVISIONS OF 5

56 Palæontology.

56(11) Stratigraphical

[divided as in Table C (11)].

56(2-9) Regional

[divided as in Table C].

561 Fossil plants.

562-569 Fossil animals.

562 Invertebrates

5631 Protozoa

5633 Coelenterata

564 Mollusca

565 Articulata

566 Vertebrates } [as in 59].

567 Fishes

5676 Amphibia

5681 Reptiles

5682 Birds

569 Mammals

57 Biology.

Anthropology.

571 Prehistoric.

572 Ethnologic.

573 Natural history of Man [see also 5999].

Special Biology.

575 Evolution.

5751 Heredity.

5752 Variation.

5753 Environment.

5754 Natural selection.

5757 Degeneration.

576 Origin of life.

5763 Cells.

5768 Bacteriology [see also 61601].

577 Properties of living matter.

5771 Biological chemistry.

5772 Life.

5773 Biological physics.

TABLE A : SUBDIVISIONS OF '5

'5777	Death.
'5778	Sex.
	Biological technic.
'578	Microscopy.
'579	Collecting.
'58	Botany.
'581	Biological Botany.
'5811	Physiology.
'58111	Circulation.
'58112	Respiration.
'58113	Nutrition.
'58114	Development.
'58115	Variation.
'58116	Reproduction.
'58117	Cells.
'58118	Movement.
'58119	Plant chemistry.
'5812	Pathology.
'5813	Embryology.
'5814	Morphology.
'58143	Root.
'58144	Stem.
'58145	Leaf.
'5815	Habits ; Ecology.
'5816	Economics.
'5818	Histology.
'5819 (2-9)	Geographical Botany
	<i>[divided as in Table C].</i>
'582-'589	Systematic Botany.
'582	Phanerogams.
	Angiosperms.
'583	Dicotyledons.
'584	Monocotyledons.
'585	Gymnosperms.
'586	Cryptogams.
'587	Pteridophytes.

TABLE A : SUBDIVISIONS OF '5

·5871	Isoetææ.
·5872	Equisetums.
·5873	Ferns.
·5879	Lycopodiums.
·588	Bryophytes.
·5881	Sphagnum.
·5882	Mosses.
·5883	Hepaticæ.
·5884	Characeæ.
·589	Thallophytes.
·5891	Lichens.
·5892	Fungi.
·5893	Algæ.
·59	Zoology.
·591	Biological Zoology.
·5911	Physiology.
·59111	Circulation.
·59112	Respiration.
·59113	Nutrition.
·59114	Secretion and Excretion.
·59115	Variation.
·59116	Reproduction.
·59117	Locomotion.
·59118	Nervous functions.
·5912	Pathology.
·5913	Embryology.
·5914	Morphology.
·59141	Organs of circulation.
·59142	Organs of respiration.
·59143	Organs of nutrition.
·59144	Organs of secretion.
·59146	Organs of reproduction.
·59147	Organs of movement.
·591471	Osteology.
·59148	Nervous system.
·59149	Regional.
·5915	Habits and behaviour.
·5916	Economics.
·59169	Parasitology.

TABLE A: SUBDIVISIONS OF '5.

'5918	Histology.
'5919 (2-9)	Geographical Zoology [divided as in Table C].
'592-'599	Systematic Zoology.
'592	Invertebrates.
'5931	Protozoa.
'5933	Cœlenterata.
'5934	Sponges, Porifera.
'5935	Cnidaria.
'5936	Corals.
'5937	Hydrozoa.
'5938	Ctenophora.
'5939	Echinodermata.
'594	Mollusca.
'5947	Bryozoa, Polyzoa.
'5948	Brachiopoda.
'5949	Tunicata.
'595	Articulata.
'5951	Worms.
'59518	Rotifera.
'5952	Arthropoda.
'5953	Crustacea.
'5954	Arachnida.
'5957	Insecta.
'59571	Thysanura.
'59572	Orthoptera.
'59573	Pseudoneuroptera.
'59574	Neuroptera.
'59575	Hemiptera.
'59576	Coleoptera.
'59577	Diptera.
'59578	Lepidoptera.
'59579	Hymenoptera.
'596	Vertebrates.
'597	Fishes.
'5976	Amphibia.
'5981	Reptiles.
'5982	Birds.
'599	Mammals.
'5999	Man [<i>see also</i> '573].

TABLE A : SUBDIVISIONS OF ·6

·6 APPLIED SCIENCE.

·619 **Veterinary Science.**

·6191 Horses.

·6192 Cattle.

·6193 Sheep.

·6194 Swine.

·62 **Engineering.**

·621 Mechanical engineering.

·6211 Steam.

·6212 Water.

·6213 Electricity.

·6214 Gas.

·63 **Agriculture.**

·63(·) Regional Agriculture

[divided as in Table C].

·63 : 33 Agricultural Economics.

·63 : 53 Agricultural Physics.

·63 : 54 Agricultural Chemistry.

·63 : 55 Agricultural Geology.

·63 : 5768 Agricultural Bacteriology.

·63 : 58 Agricultural Botany.

·63 : 59 Agricultural Zoology.

·63 : 657 Agricultural Book-keeping.

Systematic Agriculture.

·631 Soils.

·6316 Fertilizers.

·6317 Farm engineering.

·6319 Methods of cultivation.

·632 Pests.

·633 Crops.

·6331 Food.

·6333 Fodder.

·6334 Industrial.

TABLE A : SUBDIVISIONS OF '6

'634	Forestry.
'635	Horticulture.
'636	Domestic Animals.
'6361	Horses.
'6362	Cattle.
'6363	Sheep.
'6365	Poultry.
'637	Dairy.
'638	Useful Insects.
'6381	Bees.
'639	Fish and Game.
'66	Chemical Technology.
'661	Chemicals.
'662	Pyrotechnics, etc.
'663	Ferments, Beverages.
'664	Foods.
'665	Oils, Fats, etc.
'666	Ceramics, Glass, etc.
'667	Dyeing.
'668	Miscellaneous industries.
'669	Metallurgy.
'6699	Assaying.

TABLE B.

FORM DIVISIONS.

01	Theory of the subject.
011	Definition.
012	Classification.
014	Nomenclature.
02	Systematic works.
03	Alphabetic works.
04	Essays.
043	Theses.
05	Periodicals.
058	Directories.
059	Year books.
06	Publications of Societies.
069	Lists of members.
07	Methods of Study.
071	Teaching institutions.
072	Research institutions.
074	Museums, galleries.
078	Apparatus.
08	Collective works.
081	By one person.
082	By several persons.
083	Tables of results.
084	Plates, atlases.
089	Collections by the binder merely.
09	History of the subject.
091	Bibliography.
092	Biography.

TABLE C.

PLACE DIVISIONS.

- (∞) **Whole world.**
- (11) **Geologic place** [*cf.* Table A, '5517].
 - (112) Primary, Palæozoic.
 - (1121) Cambrian.
 - (113) Silurian.
 - (114) Devonian.
 - (115) Carboniferous, Permian.
 - (116) Secondary, Mesozoic.
 - (1161) Triassic.
 - (1162) Jurassic.
 - (117) Cretaceous.
 - (118) Tertiary, Neozoic.
 - (1181) Eocene.
 - (1182) Miocene.
 - (1183) Pliocene.
 - (119) Quarternary.
 - (1191) Recent.
- (12) **Palethnologic place.**
- (2) **Physical place.**
 - (21) Continents.
 - (211) Glacial zones.
 - (212) Temperate zones.
 - (213) Torrid zone.
 - (22) Islands.
 - (23) Mountains.
- (3) **Political place: Ancient.**
 - (31) China.
 - (32) Egypt.
 - (34) India.
 - (36) Europe.
 - (363) Teutons.
 - (3632) Anglo-Saxons.
 - (364) Celts.
 - (367) Slavs.
 - (37) Rome.
 - (38) Greece.
 - (39) Minor Countries.

TABLE C : PLACE DIVISIONS

(4-9)	Political place : Modern.
(4)	Europe.
(41)	Scotland.
(411)	Northern.
(412)	North-Eastern.
(413)	Central.
(414)	Southern.
(415]	Ireland.
(42)	England. Great Britain. United Kingdom.
(429)	Wales.
(43)	Germany.
(44)	France.
(45)	Italy.
(46)	Spain.
(469)	Portugal.
(47)	Russia.
(48)	Scandinavia.
(492)	Holland.
(493)	Belgium.
(494)	Switzerland.
(495)	Greece.
(496)	Turkey.
(497)	Balkan States.
(5)	Asia.
(51)	China.
(52)	Japan.
(53)	Arabia.
(54)	India.
(55)	Persia.
(56)	Asia Minor.
(58)	Afghanistan, etc.
(6)	Africa.
(62)	Egypt.
(68)	South Africa.
(7)	North America.
(71)	British.
(73)	United States.
(8)	South America.
(9)	Oceania.
(931)	New Zealand.
(94)	Australia.

·5 SCIENCE GENERAL.

- 501 **Enriquez, F.** Problems of science. Chicago 1914.
- 501 **Jevons, W. S.** Principles of science. 2 vols.
Lond. 1874.
- 501 **Ostwald, W.** Die Forderung des Tages. Leip. 1911.
- 501 **Pearson, K.** Grammar of science. Pt. 1→
Lond. 1911→
- 501 **Westaway, F. W.** Scientific method. Lond. 1919.
- 503 **Henderson, I. F., and W. D.** Dictionary of scientific
terms. Edin. 1920.
- 503 **Stormonth, J.** Manual of scientific terms. Edin. 1879.
- 504 **Avebury, Sir J. Lubbock, 1st baron.** The Beauties of
nature and the wonders of the world we live in.
Lond. 1892.
- 504 ——— Scientific lectures. Lond. 1879.
- 504 **Buchanan, J. Y.** Accounts rendered of work done
and things seen. Camb. 1919.
- 504 **Gibson, C. R.** Scientific ideas of to-day. Lond. 1916.
- 504 **Gregory, Sir R.** Discovery ; or, The spirit and service
of science. Lond. 1919.
- 504 **Helmholtz, H. L. F. von.** Popular lectures on scientific
subjects. 2 ser. Lond. 1873-81.
- 504 **Huxley, T. H.** Lectures and lay sermons. Lond. [1910].
- 504 **Jaeger, F. M.** Lectures on the principle of symmetry.
Amst. 1917.
- 504 **Kelvin, Sir W. Thomson, 1st baron.** Popular lectures
and addresses. 3 vols. Lond. 1889-94.

·5 SCIENCE GENERAL

- 504 **Lankester, Sir E. R.** The Kingdom of man.
Lond. 1907.
- 504 **Mozans, H. J.** Woman in science. New York 1913.
- 504 **Phin, J.** Seven follies of science. New York 1911.
- 504 **Rolleston, G.** Scientific papers and addresses. 2 vols.
Oxf. 1884.
- 504 **Seward, A. C.** Science and the nation. Ed. A. C. S.
Camb. 1917.
- 504 **Shaler, N. S.** Nature and man in America.
Lond. 1892.
- 504 **Shipley, A. E.** Pearls and parasites. Lond. 1908.
- 504 **Snyder, C.** New conceptions in science.
New York [1903].
- 504 **Soddy, F.** Science and life. Lond. 1920.
- 504 **Thomson, J. A.** Introduction to science. Lond.
- 504 **Wallace, A. R.** Tropical nature, and other essays.
Lond. 1878.

·505 PERIODICALS.

- 505 A. **American journal of science.** Ser. II., vol. 1→
New Haven 1846→
- 505 N. **Nature.** Vol. 1→ Lond. 1870→
- 505 NA. **La Nature.** 1904-07. Paris [1904-07].
- 505 P.M. **Philosophical magazine** (*now London, Edinburgh,
and Dublin phil. mag.*). Vol. 1→ Lond. 1798→
- 505 R. **Revue scientifique.** Ser. I., vol. 6→ Paris 1868→
- 505 SC. **Science.** New ser., vol. 49→ New York 1919→
- 505 S. **"Scientia"** [*Italian, French, English, German*]. Vol.
1→ Bologna [1907]→

·506 SOCIETIES.

- 506 B.A. **British association.** Reports. 1→ Lond. 1833→
- 506 C.P. **Cambridge philosophical society.** Proc. Vol. 1→
Camb. [1865]→
- 506 C.T. — Trans. Vol. 1→ Camb. 1822→

5 SCIENCE GENERAL

- 506 D.P. **Dublin society, Royal.** Scientific proc. New Ser.,
vol. 1-7, 11→ Dubl. 1878→
- 506 D.T. ——— Scientific trans. Ser. II., vol. 9→ Dubl. 1909→
- 506 D.B. ——— A History of the Royal Dublin society. By H. F.
Berry. Lond. 1915.
- 506 R.I. **Institution of Great Britain, Royal.** Proc. Vol. 1→
 Lond. 1854→
- 5062 D.P. **Irish Academy, Royal.** Proc. Vol. 1→
 Dubl. 1841→
- 5062 D.T. ——— Trans. Vol. 1→ Dubl. 1787→
- 5062 M.M. **Manchester literary and philosophical society.** Me-
moirs (and Proc.). Vol. 1→
 Lond. (Manch.) 1785→
- 5062 G.P. **Philosophical society of Glasgow, Royal.** Proc.
Vol. 1-4, 6→ Glasg. 1844→
- 506 L.T. **Royal Society.** Phil. trans. Vol. 1-15, 24, 27-29,
31-36, 38→. [Vol. 178→ in two series, A and B.]
 Lond. 1666→
- 506 L.P. ——— Proc. Vol. 1→. [Vol. 76→ in two series, A
and B.] Lond. 1832→
- 506 L.Y. ——— Year-book. 1896/97→ Lond. 1897→
- 506 L.T.R. ——— The Record of the Royal Society of London.
 Lond. 1912.
- 506 L.T.h. ——— The Royal Society. By Sir W. Huggins.
 Lond. [1906].
- 506 L.O.P. ——— Annals of the Philosophical club of the Royal So-
ciety. Written from its minute books by T. G.
Bonney. Lond. 1919.
- 506 L.O.R. ——— Annals of the Royal Society club: the record of
a London dining club in the eighteenth and nine-
teenth centuries. By Sir A. Geikie. Lond. 1917.
- 506 E.P. **Royal Society of Edinburgh.** Proc. Vol. 3 →
 Edin. 1857→
- 506 E.T. ——— Trans. Vol. 1→ Edin. 1788→

5 SCIENCE GENERAL.

- 506(26) C.B. **Conseil permanent international pour l'ex-
ploration de la mer.** Bulletins. 1902/03→
Copenh. 1903→
- 506(26) C.B.P. ——— Bulletin planktonique. 1902/08→
Copenh. 1910→
- 506(26) C.B.S. ——— Bulletin statistique. Vol. 1→
Copenh. 1906→
- 506(26) C.M. ——— Mémoire sur les travaux, 1902-1912.
Copenh. 1913.
- 506(26) C.P. ——— Publications de circonstance. No. 1→
Copenh. 1903→
- 506(26) C.R. ——— Rapports. Vol. 1→ Copenh. 1903→
- 506(26) M. **Musée océanographique de Monaco.** Bulletin.
No. 1→ Monaco 1904→
- 506(2612) K. **Kommission zur wissenschaftliche Untersuchung
der deutschen Meere.** Wissenschaft-
liche Meeresuntersuchungen. Abt. Kiel. Vol.
1→ Kiel 1896→
- 063 V.S.M. **Akademie der Wissenschaften** [zu Wien]. Math.-
naturw. Classe. Sitzungsberichte. Vol. 1→
Wien 1848→
- 063 M.A.M. **Bayerische Akademie der Wissenschaften.**
Math.-phys. Classe. Abhandlungen. Vol. 8→
München 1860→
- 063 M.S.M. ——— ——— Sitzungsberichte. 1860-70, 1898→
München 1860→
- 063 G.N.M. **Gesellschaft der Wissenschaften zu Göttingen.**
Math.-phys. Classe. Nachrichten. 1875→
Gött. 1875→
- 063 B.A. **Preussische Akademie der Wissenschaften.** Ab-
handlungen. 1788-1800, 1803→
Berl. 1793→
- 063 B.S. ——— Sitzungsberichte. 1882→ Berl. 1882→
- 063 L.A.M. **Sächsische Gesellschaft der Wissenschaften.**
Math.-phys. Classe. Abhandlungen. Vol. 1→
Leip. 1852→

5 SCIENCE GENERAL

- 506(44) P.C. **Académie des sciences.** Comptes rendus. Vol. 1→ Paris 1835→
- 506(44) P.M. — Mémoires de l'Académie. Vol. 1→ Paris 1818→
- 506(44) P.M.S. — Mémoires présentés par divers savans: Sciences math. et physiques. Vol. 1→ Paris 1827→
- 506(44) A.F. **Association française pour l'avancement des sciences.** Comptes rendus. 1872→ Paris 1873→
- 065 R.A. **Accademia dei Lincei, R.** Classe di scienze fisiche matematiche e naturali. Atti. Ser. III.→ Roma 1877→
- 065 R.A. — — Memorie. Vol. 1→ Roma 1894→
- 065 T.A. **Accademia delle scienze di Torino, R.** Atti. Vol. 36→ Torino 1901→
- 378(485)06 L. **Lunds Universitets årsskrift.** Vol. 1→ Lund 1865→
- 378(485)06 U. **Upsala Universitets årsskrift.** Vol. 1→ Upsala 1861→
- 506(485) U.S.A. **Societas scientiarum Upsaliensis, R.** Nova Acta. Ser. III., vol. 14→ Upsal. 1890→
- 506(485) S.V.A. **Svenska vetenskaps-akademien, K.** Åarsbok. 1903→ Stockh. 1903→
- 506(489) C.M.M. **Danske videnskabernes selskab, K.** Math.-fysike meddelelser. 1→ Kjøbenhavn 1917→
- 06393 A.W. **Akademie van Wetenschappen, K.** Section of sciences. Proc. Vol. 5→ Amst. 1903→
- 506(492) **Bataafsche maatschappij der wetenschappen.** Archives néerlandaises des sciences exactes et naturelles. [From 1912 in separate series.] Vol. 1→ La Haye, 1866→
- 064 B.B. **Académie royale de Belgique.** Bulletin. Ser. I.-III. Brux. 1836-98.
- 506 — — Classe des sciences. 1899→
- (493) A.B. — — — — — Brux. 1899→

5 SCIENCE GENERAL.

- 064 B.M. **Académie royale de Belgique.** Mémoires. Vols.
1-54. Brux. 1820-1904.
- 506 (493) A.M. ——— Classe des sciences. Vol. 1→
Brux. 1907→
- 064 B.M.C. ——— Mémoires couronnés. Vol. 1→
Brux. 1818→
- 506(493) M. **Musée du Congo.** Annales. Botanique. Ser.
I.→ Brux. 1898→
- 506(493) M. ——— Ethnographie et anthropologie. Ser.
I.→ Brux. 1899→
- 506(493) M. ——— Zoologie. Ser. I.→ Brux. 1899→
- 506(52) K.M. **Kyoto University.** College of science. Memoirs.
Vol. 1→ Kyoto 1908→
- 506(52) T.M. **Tôhuku University.** Science reports. Ser. I.
Maths., physics, chemistry. Vol. 1→
Sendai 1912→
- 506(52) TO.J. **Tokio University.** College of Science. Journal.
Vol. 1→ Tokyo 1887→
- 506(54) **India.** Board of scientific advice for India. Re-
ports. 1907/08→ Calcutta 1909→
- 06(54I) **Asiatic society of Bengal.** Journal. Vol. 12-
17, 35→ Calcutta 1843→
- 506(7 : 8) P.A. **Pan-American scientific congress.** Second
congress. Wash. 1916.
- 06(7I) **Royal Society of Canada.** Proc. and trans.
Vol. 1→ Montreal, Ottawa 1883→
- 506(73) P.A. **American philosophical society.** Trans. Vol.
1→ Philad. 1771→
- 506(73) C.Y. **Carnegie Institution.** Year-book. 1902→
Wash. 1903→
- 506(73) N.M. **National academy of sciences.** Memoirs. Vol.
1→ Wash. 1866→
- 506(73) N.P. ——— Proc. Vol. 1→ Baltimore [1915→
- 506(73) N.H. ——— History of the first half century, 1863-1913.
Wash. 1913.

·5 SCIENCE GENERAL

- 506(73) S.C. **Smithsonian Institution.** Contributions to knowledge. Vol. 1→ Wash. 1848→
- 506(73) S.M. ——— Miscellaneous collections. Vol. 1→ Wash. 1862→
- 506(73) S.R. ——— Reports of regents. 1849→ Wash. 1850→
- 506(73) S.B. ——— U.S. National museum. Bulletins 1-18, 20-23, 26-27, 30-31, 33→ Wash. 1877→
- 506(774) **Michigan academy of science.** Reports. 1→ Lansing 1900→
- f.·506(794) C.U. **California University.** Memoirs. Vol. 2→ Berkeley 1910→
- 506(93) **Australasian association for the advancement of science.** Reports. 1888→ Sydney [1889]→
- 506(944) **Royal Society of New South Wales.** Trans. (Journal and Proc.). Vol. 1, 3, 7, 8, 11→ Sydney 1868→

·507 METHODS OF STUDY.

- 507 **Schmid, B.** Handbuch der naturgeschichtlichen Technik. Hrsg. von B. S. Leip. 1914.
- 5074 **Murray, D.** Museums, their history and their use, with bibliography. 3 vols. Glasg. 1904.
- 5074 **Museums directory.** Directory of museums in Great Britain and Ireland. 1911.

·508 COLLECTIVE WORKS.

- 5081 **Tannery, P.** Mémoires scientifiques. 1→ Toulouse 1912→
- 5082 **Davis, J. R. A.** Science in modern life. Ed. J. R. A. D. 6 vols. Lond. 1908-10.
- 5082 **Melbourne University.** Collected papers from science laboratories. Vol. 1→ [Melbourne 1910→]
- 5082 **Neumayer, G. von.** Anleitung zu wissenschaftlichen Beobachtungen auf Reisen. Hrsg. von G. v. N. 2 vols. Hannover 1906.

·5 SCIENCE GENERAL

- 5082 **Reeves, E. A.** Hints to travellers, scientific and general.
Ed. E. A. R. 2 vols. Lond. 1906.
- 5082 **Strong, T. B.** Method of science. Ed. T. B. S.
Oxf. 1906.

·509 HISTORY.

- 509 **Avebury, Sir J. Lubbock, 1st baron.** Fifty years of
science. Lond. 1890.
- 509 **Candolle, A. de.** Histoire des sciences et des savants
depuis deux siècles. Genève 1885.
- 509 **Singer, C.** History and method of science. Ed. C. S.
Vol. 2. Oxf. 1921.
- 509 **Thomson, J. A.** Progress of science in the century.
Toronto 1908.
- 509 **Whetham, W. C. D., and C. D.** Science and the
human mind. Lond. 1912.
- 509(42) **Schuster, A., and Shipley, A. E.** Britain's heritage
of science. Lond. 1917.
- 509(73) **Dana, E. S., and others.** A Century of science in
America. New Haven 1918.

·509I BIBLIOGRAPHY.

- 016 : 5 *N.N.* **Naturæ novitates.** 1879→ Berl. 1879→
- 016 : 5 *R.S.* **Royal Society.** Catalogue of scientific papers.
Lond. 1867→
- Vols. 1-6. 1800-63. 1867-72.
- Vols. 7, 8. 1864-73. 1877-79.
- Vols. 9-11. 1874-83. 1891-96.
- Vol. 12 (Suppl.). 1800-83. 1902.
- Vol. 13→ 1884-1900. 1914→
- 016 : 5→ **Royal Society.** International catalogue of scientific
literature. [1901→] Lond. 1902→
- : 51 Mathematics (A).
- : 52 Astronomy (E).
- : 53 Physics (C).
- : 53I Mechanics (B).
- : 54 Chemistry (D).
- : 549 Mineralogy (G).
- : 55 Geology (H).

·5 SCIENCE GENERAL

- 016: 5514 Geography (J).
- : 5515 Meteorology (F).
- : 56 Palæontology (K).
- : 57 Biology (L).
- : 571 Anthropology (P).
- : 5768 Bacteriology (R).
- : 58 Botany (M).
- : 59 Zoology (N).

- 016: 5 **Zeitlinger, H., and Sotheran, H. C.** *Bibliotheca chemico-mathematica: catalogue of works on exact and applied science.* 2 vols. Lond. 1921.

·5092 BIOGRAPHY.

- B.M. ·5092 **British Museum.** *Memorials of Linnæus.* Lond. 1907.
- 5092 **Miall, L. C.** *The Early naturalists, 1530-1789.* Lond. 1912.
- 5092 **Tullberg, T.** *Linnéporträtt.* Stockh. 1907
- 5092 **Upsala University.** *Skrifter med anledning af Linné-festen den 23 och 24 Maj, 1907.* 2 vols. Uppsala 1907.

·5(·) REGIONAL DIVISIONS.

- 5(∞) **Adventure, H.M.S.** *Narrative of voyages of H.M.S. "Adventure" and "Beagle," 1826-1836.* [Vol. 3 is Journal of C. Darwin.] 3 vols. and appendix to vol. 2. Lond. 1839.
- 5(∞) **Banks, Sir J.** *Journal during Captain Cook's first voyage in 1768-71.* Lond. 1896.
- 5(∞) **Brehm, A. E.** *From North Pole to Equator: studies of wild life and scenes in many lands.* Lond. [1895].
- 5(∞) **Darwin, C.** *Journal of researches into the natural history and geology of the countries visited during the voyage of H.M.S. "Beagle".* Lond. 1845.
- f. ·5(26) **Albert I., Prince of Monaco.** *Résultats des campagnes scientifiques accomplies sur son yacht.* Pt. 1→ Monaco 1889→

5 SCIENCE GENERAL

- 5(26) **Bullen, F. T.** Creatures of the sea. Lond. 1904.
- 5(26) **Challenger, H.M.S.** Report on the scientific results of voyage, 1873-76. 50 vols. Lond. 1880-95.
- 5(26) **Chun, C.** Aus den Tiefen des Weltmeeres. Jena 1903.
- 5(26) **Moseley, H. N.** Notes of a naturalist on the "Challenger". Lond. 1879.
- 5(26) **Richard, J.** Campagnes scientifiques du Prince de Monaco. Monaco 1900.
- 5(26) **Spry, W. J. J.** Cruise of H.M.S. "Challenger". Lond. 1877.
- 5(26 : 794) **MacDougal, D. T.** The Salton sea. Wash. 1914.
- 5(261) **Agassiz, A.** Three cruises of the United States coast and geodetic survey steamer "Blake". 2 vols. Lond. 1888.
- 5(261) **Nordisches Plankton.** Vol. 1→ Kiel 1908→
- f. ·5(261) **Norwegian North Atlantic expedition, 1876-78.** Vol. 1→ Christiania 1882→
- 5(261) **Thomson, Sir C. W.** Voyage of the "Challenger". The Atlantic. 2 vols. Lond. 1877.
- 5(265) **Guppy, H. B.** Observations of a naturalist in Pacific Ocean, 1896-99. 2 vols. Lond. 1903-06.
- 5(267) **Alcock, A. W.** A Naturalist in Indian seas. Lond. 1902.
- f. ·5(268) **Campagne arctique.** Campagne arctique de 1907. Pt. 1→ Brux. 1910→
- 5(268) **Fram.** Report of the second Norwegian Arctic expedition in the "Fram," 1898-1902. Vol. 1→ Kristiania 1907→
- 5(269) **Belgica.** Expédition antarctique belge. Résultats du voyage du S. Y. Belgica en 1897-1899. Rapports scientifiques. Vol. 1→ Anvers 1901→
- 5(269) **British Antarctic expedition.** Meteorology. 2 vols. By G. C. Simpson. Calcutta 1919.
- 5(269) **National Antarctic expedition.** Album of photographs. 2 vols. Lond. 1908.
- 5(269) ——— Magnetic observations. Lond. 1909.

5 SCIENCE GENERAL

- *5(269). **National Antarctic expedition.** Meteorology. Vol. 1→
Lond. 1908→
- *5(269) ——— Natural history. Vol. 1→ Lond. 1907→
- *5(269) ——— Physical observations. Lond. 1908.
- *5(269) **Scotia.** Voyage of the "Scotia". Edin. 1906.
- f. *5(269) ——— Report on scientific results. Vol. 2→
Edin. 1907→
- *5(285) **Murray, Sir J., and Pullar, L.** Bathymetrical survey
of Scottish fresh-water lochs. 6 vols. Edin. 1910.
- *5(41) **Gordon, S. P.** The Charm of the hills. Lond. 1912.
- *5(41) ——— The Land of the hills and the glens. Lond. 1920.
- *5(4116) **Dixon, J. H.** Gairloch in North-west Ross-shire.
Edin. 1886.
- *5(4125) **Macgillivray, W.** Natural history of Deeside and
Braemar. Lond. 1855.
- *5(4133) **Wood, W.** The East Neuk of Fife. Edin. 1862.
- *5(42) **Fisher, A. T.** Outdoor life in England. Lond. 1896.
- *5(421) **Cornish, C. J.** The Naturalist on the Thames.
Lond. 1902.
- *5(4274) **Auden, G. A.** Historical and scientific survey of York.
Ed. G. A. A. York 1906.
- *5(44) **French science.** La Science française. 2 vols.
Paris 1915.
- *5(4512) **Strasburger, E.** Rambles on the Riviera. Lond. 1906.
- *5(46) **Gadow, H.** In northern Spain. Lond. 1897.
- *5(493) **Belgium.** Le Mouvement scientifique en Belgique,
1830-1905. 2 vols. Brux. 1907-08.
- *5(51) **China.** Research in China. Vol. 1→ Wash. 1907→
- *5(51) **Wilson, E. H.** A Naturalist in Western China. 2 vols.
Lond. [1913].
- *5(512) **Skertchly, S. B. J.** Our island, a naturalist's descrip-
tion of Hong Kong. Hong Kong 1893.
- *5(541) **Cunningham, D. D.** Plagues and pleasures of life in
Bengal. Lond. 1907.

5 SCIENCE GENERAL

- 5(674) **Elliot, G. F. S.** A Naturalist in Mid-Africa. Lond. 1896.
- 5(6772) **Forbes, H. O.** Natural history of Sokotra and Abd-el-Kuri. Liverpool 1903.
- 5(682) **Distant, W. L.** A Naturalist in the Transvaal. Lond. 1892.
- 5(691) **Sibree, J.** A Naturalist in Madagascar. Lond. 1915.
- 5(71) **Traill, C. P.** Pearls and pebbles; or, Notes of an old naturalist. Lond. 1895.
- 5(7296) **Shattuck, G. B.** Bahama Islands. New York 1905.
- 5(798) **Alaska.** Alaska: results of the Harriman Alaska expedition. Vol. 1→ Lond., New York 1902→
- 5(8) **Ball, J.** Notes of a naturalist in South America. Lond. 1887.
- 5(911) **Beccari, O.** Wanderings in the great forests of Borneo. Lond. 1904.
- 5(911) **Shelford, R. W. C.** A Naturalist in Borneo. Ed. E. B. Poulton. Lond. [1916].
- 5(911) **Whitehead, J.** Exploration of Mount Kina Balu, North Borneo. Lond. 1893.
- 5(93) **Meek, A. S.** A Naturalist in cannibal land. Lond. [1913].
- 5(931) **Drummond, J.** Nature in New Zealand. Ed. F. W. Hutton. Christchurch [1902]
- 5(935) **Guppy, H. B.** The Solomon Islands. Lond. 1887.
- 5(935) **Woodford, C. M.** A Naturalist among the head-hunters. Melbourne 1890.
- 5(94) **Hill, J. G.** Calvert scientific exploring expedition (Australia, 1896). Lond. 1905.
- 5(94). **Horn scientific expedition.** Report on the work. 4 vols. Lond. 1896.
- 5(94) **Semon, R.** In the Australian bush. Lond. 1899.
- 5(946) **Meredith, L. A.** Tasmanian friends and foes—feathered, furred, and finned. Lond. 1881.
- 5(946) **Smith, G.** A Naturalist in Tasmania. Oxf. 1909.

·5 SCIENCE GENERAL

- 5(95) **Pratt, A. E.** Two years among New Guinea cannibals.
Lond. 1906.
- 5(95) **Thomson, J. P.** British New Guinea. Lond. 1892.
- B.M. ·5(97) **Andrews, C. W.** Monograph of Christmas Island—
physical features and geology, with description of the
fauna and flora. Lond. 1900.
- 5(98) **Greenland.** Meddelelser om Grønland. Vol. 1→
Kjøbenhavn 1879→
- 5(98) **Nordenskiöld, A. E.** Vega-expeditionens vetenskapliga
iakttagelser. Vol. 1→ Stockh. 1882→
- 5(99) **Chilton, C.** Subantarctic islands of New Zealand.
2 vols. Wellington 1909.
- 5(99) **Murray, G.** Antarctic manual for the use of the expedi-
tion of 1901. Ed. G. M. Lond. 1901.

·5: RELATIONAL DIVISIONS.

- B.M. ·5: 22 **British Museum.** Guide to exhibition of animals, etc.,
in the Bible. Lond. 1911.
- 5: 407 **Allbutt, Sir T. C.** Notes on the composition of scientific
papers. Lond. 1904.
- 5: 65553 **Hill, T. G.** The Essentials of illustration. Lond. 1915.

·51 MATHEMATICS.

- 5101 **Berkeley, H.** *Mysticism in modern mathematics.*
Lond. 1910.
- 15:51 **Boole, M. E. Mrs.** *Mathematical psychology of*
Gratry and Boole. Lond. 1897.
- 5101 **Couturat, L.** *Les Principes des mathématiques.*
Paris 1905.
- 5101 **Jaeger, F. M.** *Lectures on the principle of symmetry.*
Lond. [1917].
- 5101 **Poincaré, H.** *Science and hypothesis.* Lond. 1905.
- 5101 — *Science et méthode.* Paris 1908.
- 5101 — *La Valeur de la science.* Paris [1905].
- 5101 **Richardson, R. P. and Landis, E. H.** *Fundamental*
conceptions of modern mathematics. Chicago 1916.
- 5101 — *Numbers, variables, and Mr. Russell's philosophy.*
Chicago 1916.
- 5101 **Russell, B. A. W.** *Introduction to mathematical philo-*
sophy. Lond. 1919.
- 5101 — *Principles of mathematics.* Vol. 1→
Camb. 1903→
- 5101 **Whitehead, A. N. and Russell, B.** *Principia mathe-*
matica. Vol. 1→ Camb. 1910→
- 5101 **Young, J. W.** *Fundamental concepts of algebra and*
geometry. New York 1911.
- 51014 **André, D.** *Des notations mathématiques.* Paris 1909.
- 5102 **Bouasse, H.** *Cours de mathématiques générales.*
Paris [1911].
- 5102 **Encyclopädie der mathematischen Wissenschaften.**
Vol. 1→ Leip. 1898→

·51 MATHEMATICS

- 5102 **Fabry, E.** *Traité de mathématiques générales.* Paris 1911.
- 5102 **Mehler, F. G.** *Elementar-Mathematik.* Berl. 1903.
- 5102 **Saxelby, F. M.** *Course in practical mathematics.* Lond. 1919.
- 5102 **Usherwood, T. S. and Trimble, C. J. A.** *Practical mathematics.* 2 pts. Lond. 1916-20.
- 5104 **Klein, F.** *Lectures on mathematics.* New York 1894.
- 5104 **Lagrange, J. L.** *Lectures on elementary mathematics.* Chicago 1898.
- 5104 **Newman, F. W.** *Mathematical tracts.* 2 vols. Camb. 1888-89.
- 5104 **Perry, J.** *Practical mathematics.* Lond. 1907.
- 5104 **Schubert, H.** *Mathematical essays and recreations.* Chicago 1898.

·5105 PERIODICALS.

- 5105 A. **Acta mathematica.** Vol. 1→ Stockh. 1882→
- 5105 AM. **American journal of mathematics.** Vol. 1→
Baltimore 1878→
- 5105 GE. **Annales de mathématiques:** Gergonne. 22 vols.
Nismes 1810-31.
- 5105 A.S. **Annales scientifiques de l'École normale supérieure.**
Vol. 1→ Paris 1864→
- 5105 AN. **Annali di matematica pura ed applicata, (begun as
Annali di scienze matematiche e fisiche).** Vol.
1→ Roma 1850→
- 5105 B.S. **Bulletin des sciences mathématiques.** Ser. I.,
vols. 21-22. Paris 1897-99.
- 5105 C. **Crelle's Journal für die reine Mathematik.**
Vol. 1→ Berl. 1826→
- 5105 I.M. **Intermédiaire des mathématiciens.** Vol. 1→
Paris 1894→
- 5105 J. **Jahrbuch über die Fortschritte der Mathematik.**
Vol. 1→ Berl. 1871→

·51 MATHEMATICS

- 5105 J.E. **Journal de l'École polytechnique.** Vol. 1→
Paris [1795]→
- 5105 JO. **Journal de mathématiques:** Liouville. Vol. 1→
Paris 1836→
- 5105 M.G. **Mathematical gazette.** Vol. 1→ Lond. 1900→
- 5105 M.N. **Mathematical notes.** No. 1→ Edin. 1909→
- 5105 M.Q. **Mathematical questions** from the Educational Times.
Vol. 1→ Lond. 1864→
- 5105 M. **Mathematician.** 6 vols. Lond. 1845-56.
- 5105 M.A. **Mathematische Annalen.** Vol. 1→ Leip. 1869→
- 5105 M.M. **Messenger of mathematics** (*begun as Oxford, Cam-*
bridge, and Dublin M. of M.). Vol. 1→
Camb., etc. 1862→
- 5105 Q. **Quarterly journal of mathematics** (*begun as Cam-*
bridge mathematical journal). Vol. 1→
Camb., etc., 1841→
- 5105 R. **Revue de mathématiques spéciales.** Paris [1892-96].
- 5105 T.M. **Tôhoku mathematical journal.** Vol. 6→
Sendai 1915→

·5106 SOCIETIES.

- 5106 A.M. **American mathematical society.** Trans. Vol. 1→
Lancaster, Pa. 1900→
- 378 **California University publications.** Mathematics.
(794)06 Vol. 1→ Berkeley 1912→
- 5106 P. **Circolo matematico di Palermo.** Rendiconti. Vol.
1→ Palermo 1887→
- 5106 E. **Edinburgh mathematical society.** Proc. Vol. 1→
Edin. 1884→
- 5106 L. **London mathematical society.** Proc. Vol. 1→
Lond. [1866]→
- 5106 S. **Svenska vetenskaps-akademien, K.** Arkiv för mate-
matik, etc. Vol. 1→ Stockh. 1904→

·5107 METHODS OF STUDY.

- 5107 **De Morgan, A.** Study and difficulties of mathematics.
Chicago 1898.

·51 MATHEMATICS

- 5107 **McMurry, C. A.** Special method in arithmetic.
New York 1915.
- 5107 **Smith, D. E.** Teaching of elementary mathematics.
New York 1900.
- 5107 **Treutlein, P.** Der Geometrische Anschauungsunterricht.
Leip. 1911.
- 5107 **Young, J. W. A.** Teaching of mathematics.
New York 1914.
- 51079 **Ball, W. W. R.** Mathematical recreations.
Lond. 1905.
- 51079 **De Morgan, A.** Budget of paradoxes. 2 vols.
Chicago 1915.
- 51079 **Dodgson, C. L.** Pillow problems. Lond. 1895.
- 51079 **Fourrey, E.** Curiosités géométriques. Paris [1909].
- 51079 **Klein, F.** Famous problems. Boston [Mass.] 1897.
- 51079 **Lucas, E.** Récréations mathématiques. 4 vols.
Paris 1891-96.
- 51079 **Wilson, J. C.** Traversing of geometrical figures.
Oxf. 1905.

·5108 COLLECTED WORKS.

- 5108 **Abel, N. H.** Œuvres complètes. 2 vols.
Christiania 1881.
- 5108 **Archimedes.** Works. Edited by T. L. Heath.
Camb. 1897.
- 5108 **Barrow, J.** Mathematical works. Camb. 1860.
- 5108 **Beltrami, E.** Opere. Vol. 1→ Milano 1902→
- 5108 **Betti, E.** Opere. Vol. 1→ Milano 1903→
- 5108 **Brioschi, F.** Opere. 5 vols. Milano 1901-09.
- 5108 **Cauchy, A.** Œuvres complètes. Vol. 1→
Paris 1882→
- 5108 **Cayley, A.** Collected mathematical papers. 14 vols.
Camb. 1889-98.
- 5108 **Christoffel, E. B.** Gesammelte mathematische Abhandlungen. 2 vols.
Leip. 1910.

·51 MATHEMATICS

- 5108 **Clifford, W. K.** Mathematical papers. Lond. 1882.
- 5108 **Cremona, L.** Opere matematiche. 3 vols.
Milano 1914-17.
- 5108 **Ellis, R. L.** Mathematical writings. Camb. 1863.
- 5108 **Euler, L.** Opera omnia. Vol. 1→ Lips. 1911→
- 5108 **Fermat, P. de.** Œuvres. Vol. 1→ Paris 1891→
- 5108 **Fourier, J. B. J.** Œuvres. 2 vols. Paris 1888-90.
- 5108 **Galois, É.** Œuvres mathématiques. Paris 1897.
- 5108 **Gauss, C. F.** Werke. Vol. 1→ Gött. 1863→
- 5108 **Grassmann, H.** Gesammelte Werke. 3 vols.
Leip. 1894-1911.
- 5108 **Gregory, D. F.** Mathematical writings. Camb. 1865.
- 5108 **Hesse, L. O.** Gesammelte Werke. München 1897.
- 5108 **Huyghens, C.** Œuvres complètes. Vol. 1→
La Haye 1888→
- 5108 **Jacobi, C. G. J.** Gesammelte Werke. 7 vols.
Berl: 1881-91.
- 5108 **Kronecker, L.** Werke. Vol. 1→ Leip. 1895→
- 5108 **Lagrange, J. L.** Œuvres. 14 vols. Paris 1867-92.
- 5108 **Laguerre, E. N.** Œuvres. 2 vols. Paris 1898-1905.
- 5108 **Laplace, P. S. de, Marquis.** Œuvres complètes. 14
vols. Paris 1878-1912.
- 5108 **Leibnitz, G. W.** Mathematische Schriften. 7 vols.
Lond., etc. 1850-63.
- 5108 **Lejeune Dirichlet, P. G.** Werke. 2 vols. .
Berl. 1889-97.
- 5108 **Möbius, A. F.** Gesammelte Werke. 4 vols.
Leip. 1885-87
- 5108 **Plücker, J.** Wissenschaftliche Abhandlungen. 2 vols.
Leip. 1895-96.
- 5108 **Riemann, B.** Œuvres mathématiques. Paris 1898.
- 5108 **Schwarz, H. A.** Mathematische Abhandlungen. 2 vols.
Berl. 1890.
- 5108 **Smith, H. J. S.** Collected mathematical papers. 2
vols. Oxf. 1894.

·51 MATHEMATICS

- 5108 **Steiner, S.** *Gesammelte Werke.* 2 vols.
Berl. 1881-82.
- 5108 **Sylvester, J. J.** *Mathematical papers.* Vol. 1→
Camb. 1904→
- 5108 **Toschi di Fagnano, G. C.** *Opere matematiche.* 3 vols.
Milano 1911-12.
- 5108 **Weierstrass, K.** *Mathematische Werke.* Vol. 1→
Berl. 1894→
- 51082 **EDINBURGH MATHEMATICAL TRACTS.** No. 1→
Lond. 1915→
- 51082 **OSTWALD'S KLASSIKER.** No. 1→ Leip. 1889→
- 51082 **Young, J. W. A.** *Monographs on topics of modern mathematics.* Ed. J. W. A. Y. New York 1915.

·5109 HISTORY.

- 5109 **Ball, W. W. R.** *History of mathematics.* Lond. 1915.
- 5109 — *History of mathematics at Cambridge.*
Camb. 1889.
- 5109 **Cajori, F.** *History of elementary mathematics.*
New York 1914.
- 5109 — *History of mathematics.* New York 1895.
- 5109 **Cantor, M.** *Vorlesungen über Geschichte des Mathematik.* Vol. 1→ Leip. 1894→
- 5109 **Fink, K.** *History of mathematics.* Chicago 1900.
- 5109 **Gow, J.** *History of Greek mathematics.* Camb. 1884.
- 5109 **Libri, G.** *Histoire des mathématiques en Italie.* 4 vols.
Halle 1865.
- 5109 **Marie, M.** *Histoire des sciences mathématiques.* 12 vols.
Paris 1883-88.
- 5109 **Mikami, Y.** *Development of mathematics in China and Japan.* Leip. 1913.
- 5109 **Miller, G. A.** *Historical introduction to mathematical literature.* New York 1916.
- 5109 **Montucla, J. E.** *Histoire des mathématiques.* 4 vols.
Paris 1799-1802.
- 5109 **Picard, É.** *Les Sciences mathématiques en France depuis un demi-siècle.* Paris 1917.

·51 MATHEMATICS

- 5109 **Smith, D. E., and Mikami, Y.** History of Japanese mathematics. Chicago, 1914.

·51091 BIBLIOGRAPHY.

- 016 : 51 **Mathematical association.** Catalogue of current mathematical journals, with the names of the libraries in which they may be found. Lond. 1913.
- 016 : 51 **Royal Society.** International catalogue of scientific literature. Mathematics. [1901→] Lond. 1902→

·51092 BIOGRAPHY.

- 92 : 51 **De Morgan, E.** Memoir of Augustus De Morgan. Lond. 1882.
- 92 : 51 **Graves, R. P.** Life of Sir William Rowan Hamilton. 3 vols. Dubl. 1882-89.
- 92 : 51 **Napier, M.** Memoirs of John Napier of Merchiston. Edin. 1834.
- Λ **Tweedie, C.** Life and writings of Colin Maclaurin. [Lond.] 1915.

Maclaurin was professor of mathematics at Marischal College, 1717-26. See also under ·5121, ·51326, ·5171, ·521.

- 92 : 5108 **Macfarlane, A.** Ten British mathematicians of the 19th century. New York 1916.

·511 ARITHMETIC.

- 375 : 511 **Boole, M. E., Mrs.** Lectures on logic of arithmetic. Oxf. 1903.
- 51101 **Brooks, E.** Philosophy of arithmetic. Philad. 1904.
- 51104 **Gauss, C. F.** Recherches arithmétiques. Paris 1807.
- 41721 **Smith, D. E., and Karpinski, L. C.** The Hindu-Arabic numerals. Boston, Mass. 1911.
- 51109 **Cunnington, S.** Story of arithmetic. Lond. 1901.
- Λ **Geddes, Sir W. D.** The Curiosities of ancient arithmetic. Abd. 1853.
- 41721 **Hill, G. F.** Development of Arabic numerals in Europe. Oxf. 1915.

·51 MATHEMATICS

- 016 : 511 **De Morgan, A.** Arithmetical books. Lond. 1847.
- 016 : 511 **Smith, D. E.** Rara arithmetica. Boston, Mass. 1908.
-
- 5111 **Beman, W. W.** Higher arithmetic.
Boston [Mass.] 1900.
- 5111 **Bertrand, J.** Traité d'arithmétique. Paris 1901.
- 5111 **Cocker, E.** Arithmetick. 27th edition. Lond. 1709.
- 5111 **De Morgan, A.** Elements of arithmetic. Lond. 1880.
- 5111 **Gelin, E.** Traité d'arithmétique. Namur 1888.
- 5111 **Goyen, P.** Higher arithmetic. Lond. 1897.
- 5111 **Kleyer, J. F. J.** Traité d'arithmétique. 3 vols.
Liège 1885-86.
- 5111 **Lacroix, S. F.** Traité d'arithmétique. Paris 1826.
- 5111 **Leysenne, P.** Traité d'arithmétique. Paris 1903.
- 5111 **Malcolm, A.** [*M.A., Mar. Coll.*]. A New system of
arithmetick, theoretical [*sic*] and practical.
Lond. 1730.
- 5111 — A New treatise of arithmetick and book-keeping.
Edin. 1718.
- 5111 **Schubert, H.** Arithmetik und Algebra. Leip. 1898.
- 5111 **Serret, J. A.** Traité d'arithmétique. Paris 1875.
- 5111 **Smith, J. Brook-.** Arithmetic in theory and practice.
Lond. 1910.
- 5111 **Tannery, J.** Leçons d'arithmétique. Paris 1900.
- 5111 **Wentworth, G. A.** Advanced arithmetic.
Boston [Mass] 1903.
- HN.* **Wright, A.** [*M.A., King's Coll., 1728*]. A Treatise of
19 . 43 practical arithmetic, both integral and fractional.
Edin. 1767.
- MN.* — A Treatise of fractions. Lond. 1734.
13 . 190

·5118 MENSURATION.

- 5118 **Halsted, G. B.** Mensuration. Boston [Mass] 1900.
- 5118 **Jackson, S.** Commercial arithmetic. Lond. 1893.

·51 MATHEMATICS

- 5118 **Moore, B. T.** Mensuration. Lond. 1896.
 ·5118 **Nesbit, A.** Practical mensuration. Lond, 1898.

·51196 TABLES.

- f.* ·51196 **Crelle, A. L.** Calculating tables. Berl. 1908.
 ·51196 **Hedrick, H. B.** Interpolation tables. Wash. 1918.
 ·51196 **Laundy, S. L.** Table of quarter squares up to 100,000.
 Lond. 1856.
f. ·51196 **Lehmer, D. N.** Factor table for the first ten millions.
 Wash. 1909.
f. ·51196 — Prime numbers from 1 to 10,006,721.
 Wash. 1914.
f. ·51196 **Peters, J.** New calculating tables. Berl. 1909.
 ·51196 **Stager, H. W.** A Sylow factor table of the first twelve
 thousand numbers. Wash. 1916.
 ·51196 **Zimmermann, H.** Calculating tables. Berl. 1904.

·512 ALGEBRA.

- 5121 **Bourlet, C. E. E.** Leçons d'algèbre élémentaire.
 Paris 1902.
 ·5121 **Chrystal, G.** Algebra, an elementary text-book. 2
 vols. Edin. 1889.
 ·5121 — Introduction to algebra. Lond. 1905.
 ·5121 **Davison, C.** Higher algebra. Camb. 1912.
 ·5121 **Hall, H. S. and Knight, S. R.** Higher algebra.
 Lond. 1897.
 ·5121 **Maclaurin, C.** Treatise of algebra.
 Lond. 1748, 1756, 1779, 1788, 1796.
 ·5121 **Smith, C.** Treatise on algebra. Lond. 1893.
 ·5121 **Todhunter, I.** Algebra. Lond. 1866.
 ·5121 **Weber, H.** Lehrbuch der Algebra. 2 vols.
 Braunsch. 1896-1908.
 A **Welsh, J.** [*M.A., King's Coll., 1807*]. An Elementary
 treatise on algebra. Brechin 1817.
 ·5122 **Abel, N. H. and Galois, E.** Algebraische Auflösung
 der Gleichungen. Berl. 1889.

·51 MATHEMATICS

- 5122 **Lagrange, J. L.** Résolution des équations numériques.
Paris 1826.
- 5122 **Mathews, G. B.** Algebraic equations. Camb. 1907.
- 5124 **Hadamard, J.** La Série de Taylor. [Paris] 1901.
- 5125 **Macmahon, P. A.** Combinatory analysis. 2 vols.
Camb. 1915-16.
- 5127 **Hobson, E. W.** John Napier and the invention of
logarithms, 1614. Camb. 1914.
- 5127 **Knott, C. G.** Napier tercentenary memorial volume.
Lond. 1915.
- 5127 **Napier, J.** Construction of the wonderful canon of
logarithms. Edin. 1889.
- 5128 **Salmon, G.** Modern higher algebra. Dubl. 1866.
- 5128 **Serret, J. A.** Cours d'algèbre supérieure. 2 vols.
Paris 1910.
- 5128 **Weber, H.** Traité d'algèbre supérieure. Paris 1898.

·51281 THEORY OF NUMBERS.

- 51281 **Cahen, E.** Théorie des nombres. Vol. 1→
Paris 1914→
- 51281 **Cashmore, M.** Fermat's last theorem. Lond. 1918.
- 51281 **Dedekind, R.** Essays on theory of numbers.
Chicago 1901.
- 51281 **Dickson, L. E.** History of the theory of numbers.
Vol. 1→ Wash. 1919→
- 51281 **Hardy, G. H.** Some famous problems of the theory of
numbers and in particular Waring's problem.
Oxf. 1920.
- 51281 **Hensel, K.** Zahlentheorie. Berl. 1913.
- 51281 **Laurent, H.** Principes de la théorie des nombres.
[Paris] 1902.
- 51281 **La Vallée Poussin, C. J. de.** Recherches analytiques
sur la théorie des nombres premiers. 5 pts.
Paris 1897-98.
- 51281 **Legendre, A. M.** Théorie des nombres. Paris 1900.

·51 MATHEMATICS

- 51281 **Lejeune Dirichlet, P. G.** Vorlesungen über Zahlen-
theorie. Braunsch. 1879.
- 51281 **Lucas, E.** Théorie des nombres. Vol. 1. Paris 1891.
- 51281 **Mathews, G. B.** Theory of numbers. Pt. 1→
Camb. 1892→
- 51281 **Reid, L. W.** Elements of the theory of algebraic
numbers. New York 1910.
- 51281 **Sommer, J.** Introduction à la théorie des nombres
algébriques. Paris 1911.

·51282 THEORY OF EQUATIONS.

- 51282 **Burnside, W. S., and Panton, A.** Theory of equa-
tions. 2 vols. Dubl. 1899-1901.
- 51282 **Petersen, J.** Théorie des équations algébriques.
Paris 1897.
- 51282 **Todhunter, J.** Theory of equations. Camb. 1861.

·51283 DETERMINANTS.

- 51283 **Cullis, C. E.** Matrices and determinoids. 2 vols.
Camb. 1913-18.
- 51283 **Muir, Sir T.** Theory of determinants. Vol. 1→
Lond. 1906→
- 51283 **Scott, R. F.** Theory of determinants. Camb. 1904.

·51286 GROUPS.

- 51286 **Burnside, W.** Theory of groups of finite order.
Camb. 1911.
- 51286 **Campbell, J. E.** On Lie's theory of groups.
Oxf. 1903.
- 51286 **Dickson, L. E.** Linear groups. Leip. 1901.
- 51286 **Hilton, H.** Homogeneous linear substitutions.
Oxf. 1914.
- 51286 **Klein, F.** Lectures on the ikosahedron. Lond. [1913].
- 51286 **Lie, M. S.** Theorie der Transformationsgruppen. 3
vols. Leip. 1888-93.
- 51286 — Vorlesungen über continuerliche Gruppen.
Leip. 1893.

·51 MATHEMATICS

- 51286 **Mitchell, V. G.** Geometry and collineation groups of the finite projective plane *PG*. Princeton 1910.
- 51286 **Netto, E.** Theory of substitutions. Michigan 1892.
- 51286 **Whitehead, A. N.** Universal algebra. Vol. 1→
Camb. 1898→
- 51287 **Elliott, E. B.** Theory of quantities. Oxf. 1913.
- 51288 **Bromwich, T. J. I.** Quadratic forms and their classification. Camb. 1906.
- 51288 **Grace, J. H.** Algebra of invariants. Camb. 1903.

·51296 TABLES, &c.

- 51296 **Becker, G. F. and Orstrand, C. E. V.** Hyperbolic functions. Wash. 1909.
- 51296 **Bruhns, C. C.** New manual of logarithms to seven places. Leip. 1870.
- 51296 **Chappell, E.** Five figure mathematical tables.
Lond. 1915.
- I*³.5.5 **Decker, F. F.** Symmetric function tables of the fifteenthic. Wash. 1910.
- 51296 **Knott, C. G.** Four figure mathematical tables.
Lond.
- 51296 **Turner, H. H.** Tables for facilitating the use of harmonic analysis. Lond. 1913.

·513 GEOMETRY.

- 51301 **Dixon, E. T.** Foundations of geometry. Camb. 1891.
- 51301 **Mach, E.** Space and geometry in the light of physiological, psychological and physical inquiry.
Chicago 1906.
- 51301 **Russell, B. A. W.** Foundations of geometry.
Camb. 1897.
- 51307 **Dodgson, C. L.** Euclid and his modern rivals.
Lond. 1879.
- 51309 **Frankland, F.** Story of Euclid. Lond. 1902.

·51 MATHEMATICS

·5131 PLANE GEOMETRY.

- 880821 **Euclid.** Opera [*Greek-Latin*]. Ed. Heiberg et Menge.
6 vols. Lips. 1883-96.
- 5131 ——— Elementa. [*Editio princeps.*] Venetiis 1482.
- 5131 ——— Elements. Ed. Heath. 3 vols. Camb. 1908.
- 5131 ——— ——— Ed. Smith and Bryant. Lond. 1901.
- 5311 ——— ——— Ed. Todhunter. Lond. 1899.
- 5131 ——— Euclid in Greek. Book 1. With introduction and
notes by Sir T. L. Heath. Camb. 1920.
- 5131 ——— The Contents of the fifth and sixth books of
Euclid. Arranged and explained by M. J. M. Hill.
Camb. 1908.
- 5131 **Henrici, O.** Elementary geometry. Congruent figures.
Lond. 1891.
- 5131 **Mackay, J. S.** Plane geometry. Lond. 1904.
- 51313 **Crivetz, T.** Essai sur l'équidistante. Bucarest 1900.
- 51313 ——— Essai sur le postulat d'Euclide. Bucarest 1895.
- 51313 **Dodgson, C. L.** Theory of parallels. Lond. 1888.
- 51313 **Frankland, W. B.** Theories of parallelism.
Camb. 1910.
- 51313 **Gronau, K. T. E.** Das Parallelenproblem.
Hagen 1902.
- 51313 **Thompson, T. P.** Geometry without axioms.
Lond. 1833.
- 51313 **Withers, J. W.** Euclid's parallel postulate.
Chicago 1908.
- 51314 **Bruce, W. H.** Properties of the triangle and its circles.
Boston, Mass. 1903.
- Λ^2 **Gregory, J.** [*M.A., Mar. Coll., 1657*]. Exercitationes
geometricæ. Lond. 1668.
- 51321 **Hobson, E. W.** "Squaring the circle"—a history of
the problem. Camb. 1913.
- Λ **Pirie, G.** Geometrical methods of approximating to the
value of π . Lond. 1877.

·5I MATHEMATICS

·51322 GEOMETRICAL CONICS.

- 51322 **Besant, W. H.** Conic sections treated geometrically.
Camb. 1869.
- 51322 **Drew, W. H.** Geometrical conic sections. Lond. 1898.
- 51322 **Jackson, J. S.** Geometrical conic sections.
Lond. 1872.
- 51322 **Mukhopadhyay, A.** Elementary treatise on geometry
of conics. Lond. 1893.
- 51322 **Taylor, C.** Introduction to geometry of conics.
Camb. 1881.
- 51326 **Maclaurin, C.** Geometria organica; sive, Descriptio
linearum curvarum universalis. Lond. 1722.
“Ex dono authoris.”

·5135 MODERN GEOMETRY.

- 5135 **Askwith, E. H.** Course of pure geometry. Camb. 1903.
- 5135 **Budden, E.** Pure geometry. Lond. 1904.
- 5135 **Casey, J.** Sequel to Euclid. Dubl. 1892.
- 5135 **Chasles, M.** Traité de géométrie supérieure.
Paris 1852.
- 5135 **Cremona, L.** Projective geometry. Oxf. 1913.
- 5135 **Hatton, J. L. S.** Principles of projective geometry.
Camb. 1913.
- 5135 ——— Theory of imaginary in geometry. Camb. 1920.
- 5135 **Lachlan, R.** Modern pure geometry. Lond. 1893.
- 5135 **Reye, T.** Lectures on geometry of position. Pt. 1→
New York 1898→
- 5135 **Richardson, G., and Ramsay, A.** Modern plane
geometry. Lond. 1894.
- 5135 **Russell, J. W.** Elementary treatise on pure geometry.
Oxf. 1893.
- 5135 **Smith, W. B.** Introductory modern geometry.
New York 1893.
- 513501 **Whitehead, A. N.** Axioms of projective geometry.
Camb. 1906.

·51 MATHEMATICS

- 513509 **Borel, E.** Introduction géométrique à quelques théories physiques. Paris 1914.
- 51351 **Young, W. H., and G. C.** Theory of sets of points. Camb. 1906.

·5138 NON-EUCLIDEAN GEOMETRY.

- 5138 **Barbarin, P.** La Géométrie non-euclidienne. Paris 1902.
- 5138 **Bolyai, J.** Science absolute of space. Austin, Tex. 1896.
- 5138 **Bonola, R.** Non-euclidean geometry. Chicago 1912.
- 5138 **Carslaw, H. S.** Elements of non-euclidean plane geometry and trigonometry. Lond. 1916.
- 5138 **Coolidge, J. L.** Elements of non-euclidean geometry. Oxf. 1909.
- 5138 **Cranz, C.** Die Sogenannte vierte Dimension. Hamb. 1890.
- 5138 **Engel, F. and Stäckel, P.** Urkunden zur Geschichte der nichteuclidischen Geometrie. 2 vols. Leip. 1898-1913.
- 5138 **Hinton, C. H.** The Fourth dimension. Lond. 1904.
- 5138 ——— Scientific romances. Nos. 1-7. Lond. 1886-94.
- 5138 **Jouffret, E.** Traité de géométrie à quatre dimensions. Paris 1903.
- 5138 **Lobatschewsky, N. I.** Geometrical researches on parallels. Austin, Tex. 1892.
- 5138 ——— Introduction to elements of geometry. [Austin] 1897.
- 5138 ——— New principles of geometry. Austin 1897.
- 5138 **Manning, H. P.** The Fourth dimension simply explained. New York 1910.
- 5138 ——— Non-euclidean geometry. Boston, Mass. 1901.
- 5138 **Müller, A.** Das Problem des absoluten Raumes. Braunsch. 1911.
- 5138 **Smith, W. W.** A Theory of the mechanism of survival : the fourth dimension and its applications. Lond. 1920.

·51 MATHEMATICS

- 5138 **Sommerville, D. M. Y.** Elements of non-euclidean geometry. Lond. 1914.
- 5138 **Vasiliev, A. V.** Lobachévsky. Austin, Tex. 1894.
- 5138 **Veronese, G.** Geometrie von mehreren Dimensionen. Leip. 1894.
- 5138:016 **Sommerville, D. M. Y.** Bibliography of non-euclidean geometry. Lond. 1911.
- 5139 **Lamé, G.** Méthodes pour résoudre les problèmes de géométrie. Paris 1903.

·514 TRIGONOMETRY.

- 514 **Lock, J. B. and Child, J. M.** New trigonometry for schools and colleges. Lond. 1911.
- 514 **Newman, F. W.** Higher trigonometry. Camb. 1892.
- 514 **Snowball, J. C.** Plane and spherical trigonometry. Camb. 1863.
- Λ^2 **Urquhart, Sir T.** [*King's Coll.*, 1622]. The Trissotetras ; or table for resolving all triangles. Lond. 1645.
- 5142 **Lebesgue, H.** Leçons sur les séries trigonométriques. Paris 1906.
- 5145 **Bourlet, C. E. E.** Leçons de trigonométrie rectiligne. Paris 1898.
- 5145 **Hobson, E. W.** Plane trigonometry. Camb. 1918.
- 5145 **Todhunter, I.** Plane trigonometry. Lond. 1917.
- 5146 **McClelland, W. and Preston, T.** Spherical trigonometry. 2 vols. Lond. 1903.
- 5146 **Todhunter, I.** Spherical trigonometry. Lond. 1903.
- 51082 **Bell, H.** Solution of spherical triangles. Lond. 1915.
- Edi*

·515 DESCRIPTIVE GEOMETRY.

- 515 **Gregory, D.** Treatise of practical geometry. Trans. from Latin [by C. Maclaurin]. Edin. 1745, 1787.
- 51082 **Ince, E. L.** Course in descriptive geometry. Lond. 1915.
- Edi*
- 515 **Loria, G.** Vorlesungen über darstellende Geometrie. Pt. 1→ Leip. 1907→

·51 MATHEMATICS

- 515 **Monge, G.** *Géométrie descriptive.* Paris 1827.
- 515 **Rohn, K., and Papperitz, E.** *Lehrbuch der darstellenden Geometrie.* Leip. 1906.
- 51501 **Whitehead, A. N.** *Axioms of descriptive geometry.* Camb. 1907.
- 51511 **Kempe, A. B.** *How to draw a straight line.* Lond. 1877.

·516 CO-ORDINATE GEOMETRY.

- 516 **Casey, J.** *Analytical geometry.* Dubl. 1893.
- 516 **Coolidge, J. L.** *Treatise on the circle and the sphere.* Oxf. 1916.
- 516 **Gibson, G. A., and Pinkerton, P.** *Elements of analytical geometry.* Lond. 1911.
- 516 **Johnston, W. J.** *Analytical geometry.* Oxf. 1893.
- 516 **Loney, S. L.** *Co-ordinate geometry.* Lond. 1895.
- 516 **Milne, J.** *Analytical geometry of straight line and circle.* Lond. 1919.
- 5161 **Askwith, E. H.** *Analytical geometry of conic sections.* Lond. 1908.
- 5161 **Prado, E.** *Geometria analitica.* Mexico 1908.
- 5161 **Salmon, G.** *Conic sections.* Lond. 1917.
- 5161 **Smith, C.** *Conic sections by the methods of co-ordinate geometry.* Lond. 1918.
- 5161 **Todhunter, I.** *Plane co-ordinate geometry.* Camb. 1858.
- 5162 **Frost, P.** *Curve tracing.* Lond. 1918.
- 5162 **Hilton, H.** *Plane algebraic curves.* Oxf. 1920.
- 51626 **Basset, A. B.** *Cubic and quartic curves.* Camb. 1901.
- 51626 **Salmon, G.** *Higher plane curves.* Dubl. 1852.

·5163 THREE DIMENSIONS.

- 5163 **Aldis, W. S.** *Elementary treatise on solid geometry.* Camb. 1865.
- 5163 **Frost, P.** *Solid geometry.* Vol. 1. Lond. 1875.

·51 MATHEMATICS

- 5163 **Salmon, G.** Analytic geometry of three dimensions.
2 vols. Lond. 1912-15.
- 5163 **Smith, C.** Elementary treatise on solid geometry.
Lond. 1917.
- 5163 **Thompson, H. D.** Elementary solid geometry.
New York 1896.
- 5164 **Forsyth, A. R.** Lectures on the differential geometry
of curves and surfaces. Camb. 1912.
- 5164 **Wood, P. W.** The Twisted cubic. Camb. 1913.

·5165 MODERN CO-ORDINATE GEOMETRY.

- 5165 **Cesaro, E.** Natürliche Geometrie. Leip. 1901.
- 5165 **Jessop, C. M.** Treatise on the line complex.
Camb. 1903.
- 5165I **Ferrers, N. M.** Trilinear co-ordinates, reciprocal polars,
and theory of projections. Lond. 1890.
- 5165I **Lilienthal, R. V.** Vorlesungen über Differential-
geometrie. Vol. 1-→ Leip. 1908-→
- 5165I **Milne, W. P.** Homogeneous co-ordinates. Lond. 1910.
- 5165I **Whitworth, W. A.** Trilinear co-ordinates.
Lond. 1866.
- 51659 **Henderson, A.** The Twenty-seven lines upon the cubic
surface. Camb. 1911.

·5168 VECTORS.

- 5168 **Burali-Forti, C. and Marcolongo, R.** Elements de
calcul vectorial. Paris 1910.
- 5168 **Dickson, L. E.** Linear algebras. Camb. 1914.
- 5168 **Gibbs, J. W.** Vector analysis. New York 1902.
- 5168 **Hamilton, Sir W. R.** Elements of quaternions. Ed.
Joly. 2 vols. Lond. 1899-1901.
- 5168 **Henrici, O.** Vectors and rotors. Lond. 1903.
- 5168 **Joly, C. J.** Manual of quaternions. Lond. 1905.
- 5168 **Kelland, P. and Tait, P. G.** Introduction to quater-
nions. Lond. 1904.
- 5168 **McAulay, A.** Octonions. Camb. 1898.

·51 MATHEMATICS

- 5168 **Shaw, J. B.** Synopsis of linear associative algebra.
Wash. 1907.
- 5168 **Silbertstein, L.** Projective vector algebra.
Lond. 1919.

·517 INFINITESIMAL ANALYSIS.

- 51709 **Cajori, F.** A History of the conceptions of limits and fluxions in Great Britain, from Newton to Woodhouse.
Chicago 1919.
- 5171 **Boutroux, P.** Les Principes de l'analyse mathématique.
Vol. 1→ Paris 1914→
- 5171 **Carslaw, H. S.** Introduction to the infinitesimal calculus.
Lond. 1919.
- 5171 **De Morgan, A.** Elementary illustrations of calculus.
Chicago 1899.
- 5171 **Gibson, G. A.** Elementary treatise on calculus.
Lond. 1901.
- 5171 **Goursat, E.** Mathematical analysis. 2 vols.
Boston, Mass. 1904-17.
- 5171 **Granville, W. A.** Differential and integral calculus.
Boston, Mass. 1911.
- 5171 **Greenhill, Sir G.** Differential and integral calculus.
Lond. 1891.
- 5171 **Harnack, A.** Differential and integral calculus.
Lond. 1891.
- 5171 **Hobson, E. W.** Theory of functions of a real variable.
Vol. 1→ Camb. 1921→
- 5171 **Jordan, C.** Cours d'analyse. 3 vols. Paris 1893-96.
- 5171 **Lamb, H.** Elementary course of infinitesimal calculus.
Camb. 1919.
- 5171 **Maclaurin, C.** Treatise of fluxions. 2 vols.
Edin. 1742.
- 5171 ——— 2 vols. Lond. 1801.
- 5171 **Milne, W. P. and Westcott, G. J. B.** First course in the calculus. 2 pts. Lond. 1919-20.

51 MATHEMATICS

- 5171 **Osgood, W. F.** First course in differential and integral calculus. New York 1907.
- 5171 **Picard, E.** Développement de l'analyse. Paris 1905.
- 5171 ——— Théorie de fonctions algébriques de deux variables indépendantes. 2 vols. Paris 1897-1906.
- 5171 ——— Traité d'analyse. Vol. 1→ Paris 1896→
- 5171 **Scheffers, G.** Anwendung der differential und integral Rechnung auf Geometrie. 2 vols. Leip. 1901-02.
- 5171 **Serret, J. A.** Cours de calcul différentiel et intégral. 2 vols. Paris 1911.
- 5171 **Tannery, J.** Introduction à la théorie des fonctions d'une variable. 2 vols. Paris 1904-10.
- 5171 **Whittaker, E. T., and Watson, G. N.** Modern analysis. Camb. 1920.
- 5171 **Wilson, E. B.** Advanced calculus. Boston, [Mass. 1912].

·5172 DIFFERENTIAL CALCULUS.

- 5172 **Davison, C.** Differential calculus. Lond. 1919.
- 5172 **Edwards, J.** Differential calculus. Lond. 1918.
- 5172 **Todhunter, I.** Differential calculus. Lond. 1919.
- 5172 **Williamson, B.** Differential calculus. Lond. 1916.
- 5172 **Young, W. H.** Fundamental theorems of the differential calculus. Camb. 1910.
- 51721 **Bromwich, T. J. I.** Theory of infinite series. Lond. 1908.
- 51721 **Ford, W. B.** Studies on divergent series. New York 1916.
- 51722 **Wright, J. E.** Invariants of quadratic forms. Camb. 1908.
- 51724 **Fowler, R. H.** Elementary differential geometry of plane curves. Camb. 1920.
- 51726 **Darboux, G.** Leçons sur les systèmes orthogonaux et les co-ordonnées curvilignes. Paris 1910.
- 51726 ——— Théorie générale des surfaces. 4 vols. Paris 1887-96.

·51 MATHEMATICS

- 51726 **Eisenhart, L. P.** Differential geometry of curves and surfaces. Boston, Mass. 1909.
- 51726 **Gauss, C. F.** Investigations of curved surfaces. Princeton 1902.
- 51727 **Hancock, H.** Theory of maxima and minima. Boston, Mass. [1917].

·5173 INTEGRAL CALCULUS.

- 5173 **Edwards, J.** Integral calculus for beginners. Lond. 1918.
- 5173 **Hermite, C.** Cours [definite integrals, etc.]. Paris 1891.
- 5173 **Lebesgue, H.** Intégration des fonctions primitives. Paris 1904.
- 5173 **Todhunter, I.** Integral calculus. Lond. 1916.
- 5173 **Williamson, B.** Integral calculus. Lond. 1918.
- 51082 **Gibb, D.** Course in interpolation and numerical
Edi integration. Lond. 1915.
- 5173¹ **Hardy, G. H.** Integration of functions of a single variable. Camb. 1905.
- 51734 **Leathem, J. C.** Volume and surface integrals. Camb. 1905.
- 51735 **Byerley, W. E.** Fourier's series. Boston, Mass. 1895.
- 51082 **Carse, G. A. and Shearer, G.** Course in Fourier's
Edi analysis and periodogram analysis. Lond. 1915.
- 51735 **Carslaw, H. S.** Fourier's series and integrals. Lond. 1906.
- 51735 **Graf, J. H. and Gubler, E.** Theorie der Bessel'schen Funktionen. 2 vols. Bern 1898-1900.
- 51735 **Gray, A. and Matthews, G. B.** Treatise on Bessel functions. Lond. 1895.
- 51735 **Nielsen, N.** Handbuch der Theorie der Cylinderfunktionen. Leip. 1904.
- 51735 **Todhunter, I.** Laplace's, Lamé's, and Bessel's functions. Lond. 1875.

.51 MATHEMATICS

.51736 ELLIPTIC FUNCTIONS.

- .51736 **Baker, A. L.** Elliptic functions. New York 1890
- .51736 **Baker, H. F.** Abel's theorem. Camb. 1897.
- .51736 — Multiple periodic functions. Camb. 1907.
- .51736 **Cayley, A.** Elliptic functions. Camb. 1876.
- .51736 **Dixon, A. C.** Properties of elliptic functions.
Lond. 1894.
- .51736 **Greenhill, Sir G.** Applications of elliptic functions.
Lond. 1892.
- .51736 **Halphen, G. H.** Traité des fonctions elliptiques. 3
vols. Paris 1886-91.

.51738 DIFFERENTIAL EQUATIONS.

- .51738 **Adhémar, R. d'.** L'Equation de Fredholm et les problèmes de Dirichlet et Neumann. Paris 1909.
- .51738 **Bateman, H.** Differential equations. Lond. 1918.
- .51738 **Bôcher, M.** Differential equations. Camb. 1909.
- .51738 **Boole, G.** Differential equations. 2 vols.
Camb. 1859-65.
- .51738 **Craig, T.** Linear differential equations. Vol. 1—
New York 1889—
- .51738 **Forsyth, A. R.** Differential equations. Lond. 1914.
- .51738 — Theory of differential equations. 4 pts.
Camb. 1890-1906.
- .51738 **Goursat, E.** Intégration des équations. Paris 1891.
- .51738 **Heywood, H. B.** Sur l'équation fonctionnelle de Fredholm.
Paris 1908.
- .51738 **Johnson, W. W.** Ordinary and partial differential equations.
New York 1889.
- .51738 **Klein, F.** Über die hypergeometrische Funktion.
Leip. 1906.
- .51738 **Lalesco, T.** Introduction à la théorie des équations intégrales.
Paris 1912.
- .51738 **Lie, S.** Geometrie der Berührungstransformation.
Vol. 1— Leip. 1896—
- .51738 — Vorlesungen über Differentialgleichungen.
Leip. 1891.

51 MATHEMATICS

- 51738 **Murray, D. A.** Introductory course in differential equations, for students in classical and engineering colleges. New York 1919.
- 51738 **Page, J. M.** Differential equations. Lond. 1897.
- 51738 **Painlevé, P.** Intégration des équations. Paris 1895.
- 51738 **Tresse, A.** Invariants de l'équation différentielle. Leip. 1896.
- 51738 **Volterra, V.** Leçons sur les équations intégrales et les équations intégro-différentielles. Paris 1913.
- 51738 **Wallenberg, G. and Guldberg, A.** Theorie der linearen Differenzengleichungen. Leip. 1911.
- 51738 **Weber, H.** Die Partiellen Differentialgleichungen. 2 vols. Braunsch. 1900-01.

5174 CALCULUS OF VARIATIONS.

- 5174 **Bolza, O.** Lectures on calculus of variations. Chicago 1904.
- 5174 **Hadamard, J.** Leçons sur le calcul des variations. Vol. 1→ Paris 1910→
- 5174 **Todhunter, I.** Researches in calculus of variations. Lond. 1871.
- 517409 — History of calculus of variations. Camb. 1861.

5175 CALCULUS OF FUNCTIONS.

- 5175 **Appell, P., and Goursat, É.** Théorie des fonctions algébriques. Paris 1895.
- 5175 **Baire, B.** Leçons sur les fonctions discontinués. Paris 1905.
- 5175 **Burkhardt, H.** Funktionentheoretische Vorlesungen. 2 vols. Leip. 1899-1900.
- 51082 **Ford, L. R.** Introduction to theory of automorphic functions. Lond. 1915.
- Edi
- 5175 **Frege, G.** Function und Begriff. Jena 1891.
- 5175 **Fricke, R.** Vorlesungen. Analytisch-functionentheoretischer Teil. Leip. 1900.
- 5175 **Fricke, R., and Klein, F.** Theorie der automorphen Functionen. 2 vols. Leip. 1897-1912.

.51 MATHEMATICS

- .5175 **Harkness, J., and Morley, F.** Introduction to theory of analytic functions. Lond. 1898.
- .5175 ——— Treatise on theory of functions. Lond. 1893.
- .5175 **Schoenflies, A.** Lehre von den Punktmannigfaltigkeiten. Leip. 1900.
- .5175 **Volterra, V.** Theory of permutable functions. Princeton 1915.

.5176 CALCULUS OF FINITE DIFFERENCES.

- .5176 **Markoff, A. A.** Differenzenrechnung. Leip. 1896.

.5178 COMPLEX VARIABLES.

- .5178 **Burkhardt, H.** Theory of functions of a complex variable. Lond. 1913.
- .5178 **Durège, H.** Elements of theory of functions of a complex variable. Philad. 1896.
- .5178 **Forsyth, A. R.** Theory of functions of a complex variable. Camb. 1893.

.519 PROBABILITIES.

- .519 **Bertrand, J.** Calcul des probabilités. Paris 1888.
- .519 **Borel, É.** Éléments de la théorie des probabilités. Paris 1909.
- .519 **Carvallo, E.** Calcul des probabilités. Paris 1912.
- .519 **Czuber, E.** Probabilités et moyennes géométriques. Paris 1902.
- .519 **De Morgan, A.** Essay on probabilities. Lond. 1838.
- .519 **Laplace, P. S. de, Marquis.** Philosophical essay on probabilities. New York 1902.
- .519 **Poincaré, H.** Calcul des probabilités. Paris 1912.
- .519 **Proctor, R. A.** Chance and luck. Lond. 1891.
- .519 **Whitworth, W. A.** Choice and chance. Camb. 1878.
- .51909 **Todhunter, I.** History of theory of probability. Camb. 1865.

·51 MATHEMATICS

·5196 ERRORS OF OBSERVATION.

- 5196 **Brunt, D.** The Combination of observations.
Camb. 1917.
- 5196 **Czuber, E.** Theorie der Beobachtungsfehler.
Leip. 1891.
- 5196 **Lupton, S.** Notes on observations. Lond. 1898.
- 5198 **Comstock, G. C.** Method of least squares.
Boston, Mass. 1890.
- 5198 **Merriman, M.** Method of least squares.
New York 1901.

·52 ASTRONOMY.

- 5202 **Lepper, G. H.** From nebula to nebula. Pittsburgh 1919.
- 5202 **Newcomb, S.** The Stars: a study of the universe.
Lond. 1904.
- 5203 **Valentiner, W.** Handwörterbuch der Astronomie.
4 vols. Breslau 1897-1902.
- 5204 **Black, F. A.** Problems in time and space. Lond. [1909].
- 5204 **Gore, J. E.** Studies in astronomy. Lond. 1904.
- 5204 — The Worlds of space. Lond. 1894.
- 5204 **Turner, H. H.** Astronomical discovery. Lond. 1904.

·5205 PERIODICALS.

- 5205 A.R. **Astronomical register.** Vols. 3-17. Lond. 1866-80.
- 5205 A.N. **Astronomische Nachrichten.** Vol. 6→
Altona, Kiel 1828→
- 5205 A.J. **Astrophysical journal.** Vol. 20→ Chicago 1904→
- 5205 O. **Observatory.** Vol. 1→ Lond. 1878→
- 5206 A.M. **Astronomical Society, Royal.** Memoirs. Vol. 1→
Lond. 1822→
- 5206 A.N. — Monthly notices. Vol. 7→ Lond. 1847→

·5208 COLLECTED WORKS.

- 52081 **Arago, F.** Œuvres complètes. 17 vols. Paris 1854-62.
- 52081 **Bessel, F. W.** Abhandlungen. 3 vols. Leip. 1875-76.
- 52081 **Darwin, Sir G. H.** Scientific papers. 4 vols.
Camb. 1907-11.
- 52081 **Galilei, G.** Opere. 16 vols. Firenze 1842-56.
- 52081 **Herschel, Sir W.** Scientific papers. 2 vols.
Lond. 1912.

·52 ASTRONOMY

- 52081 **Hill, G. W.** Collected works. Vol. 1→ Wash. 1905→
- 52081 **Huggins, Sir W.** Scientific papers. Lond. 1909.
- 52081 **Kepler, J.** Opera omnia. 8 vols. Frankf. a M. 1858-71.
- 52081 **Newton, Sir I.** Opera quae extant omnia. 5 vols.
Lond. 1779-85.
- 52082 **OSTWALD'S KLASSIKER.** Leip. 1889→
- 52084 **Ball, Sir R. S.** An Atlas of astronomy. Lond. 1892.
- 52084 **Schweiger-Lerchenfeld, A. von, baron.** Atlas der
Himmelskunde. Wien 1898.

·5209 HISTORY.

- 5209 **Berry, A.** Short history of astronomy. Lond. 1898.
- 88:52 **Brown, R.** Researches into the origin of the primitive
constellations of the Greeks, etc. 2 vols.
Lond. 1899-1900.
- 5209 **Bryant, W. H.** History of astronomy. Lond. [1907].
- 5209 **Clerke, A. M.** History of astronomy during the 19th
century. Lond. 1902.
- 5209 **Delambre, J. B. J.** Histoire de l'astronomie ancienne.
2 vols. Paris 1817.
- 5209 ——— Histoire de l'astronomie du moyen âge. Paris 1819.
- 5209 ——— Histoire de l'astronomie moderne. 2 vols.
Paris 1821.
- 5209 ——— Histoire de l'astronomie au dix-huitième siècle.
Paris 1827.
- 5209 **Dreyer, J. L. E.** History of planetary systems.
Camb. 1906.
- 5209 **Grant, R.** [*M.A., King's Coll.*]. History of physical astro-
nomy. Lond. 1852.
- 5209 **Lockyer, Sir J. N.** The Dawn of astronomy.
Lond. 1894.
- 5209 **Lodge, Sir O. J.** Pioneers of science. Lond. 1893.
- 5209 **Turner, H. H.** Modern astronomy. Westm. 1901.
- 016:52 **Royal Society.** International catalogue of scientific
literature. Astronomy [1901→] Lond. 1902→

·52 ASTRONOMY

- 92 : 5208 **Ball, Sir R. S.** Great astronomers. Lond. 1895.
- 92 : 52 **Brewster, Sir D.** Memoir of Sir Isaac Newton. 2 vols.
Edin. 1855.
- 92 : 52 **Forbes, G.** David Gill—man and astronomer.
Lond. 1916.
- 52 : 53 **Arrhenius, S. A.** Lehrbuch der kosmischen Physik.
2 pts. Leip. 1903.
- 52 : 53 **Clerke, A. M.** Problems in astrophysics.
Lond. 1903.
- 52 : 53 **Trabert, W.** Lehrbuch der kosmischen Physik.
Leip. 1911.

·521 THEORETICAL ASTRONOMY.

- 521 **Maclaurin, C.** Account of Sir Isaac Newton's philosophical discoveries. Lond. 1748, 1750, 1775.
- 521 **Newton, Sir I.** Philosophiæ naturalis principia mathematica. [*Editio princeps.*] Lond. 1687.
- 521 ——— Glasg. 1871.
- 521 **Poincaré, H.** Leçons sur les hypothèses cosmogoniques.
Paris 1911.
- 521022 **Gregory, D.** [*Mar. Coll.*, 1671]. Astronomiæ physicæ et geometricæ elementa. Oxf. 1702.

·5211 SOLAR SYSTEM.

- 5211 **Alembert, J. le R. d'.** Système du monde. 3 vols.
Paris 1754-56.
- 5211 **Jeans, J. H.** Problems of cosmogony and stellar dynamics. Camb. 1919.
- 5211 **Laplace, P. S. de, Marquis.** Mécanique celeste. 5 vols.
Paris [1798]-1827.
- 5211 **Todhunter, I.** History of mathematical theories of attraction. 2 vols. Lond. 1873.
- 5213 **Moulton, F. R.** Periodic orbits. Wash. 1920.
- 5214 **Dziobek, O.** Mathematical theories of planetary motions. Ann Arbor 1892.

·52 ASTRONOMY

- 5214 **Newcomb, S., and Ross, F. E.** Inequalities in motion of the moon produced by action of planets. Wash. 1907.
- 5215 **Gyldén, J. A. H.** Orbites absolues des huit planètes principales. Vol. 1→ Stockh.→
- 51089 **Maxwell, J. Clerk.** On the stability of the motion of Saturn's rings. Camb. 1859.
Written while Maxwell was Professor of Natural Philosophy in Marischal College.
- 5215 **Socolow, S.** Corrélations régulières du système planétaire. Moscou 1898.
- 5216 **Andoyer, H.** Théorie de la lune. [Paris] 1902.
- 5218 **Cruls, L.** Eclipses du soleil. Rio de Janeiro 1894.

·522 PRACTICAL ASTRONOMY.

·5221 OBSERVATIONS.

- 5221 **Stroobant, P.** Les Observatoires astronomiques et les astronomes. Brux. 1907.
- 5221 **Dunecht observatory.** Publications. Vols. 1-3.
(41) D. Dunecht 1876-85.
- 5221 **Edinburgh Royal observatory.** Annals. Vol. 1→
(41) E.A. Edin. 1902→
- 5221 — Observations. Vols. 1-15. Edin. 1838-86.
(41) E.O.
- 5221 **Glasgow University observatory.** Catalogues of
(41) G. stars. 1→ Glasg. 1883→
- 5221 **Dublin University.** Astronomical observations made
(415) D.A. at Dunsink. Pt. 1→ Dubl. 1870→
- 5221 **Cambridge observatory.** Observations. Vols. 1-12.
(42) C.O. Camb. 1829-41.
- 5221 **Greenwich observatory.** Astrographic catalogue.
(42) G.A. Vol. 1→ Lond. 1904→
- 5221 — Astronomical observations. 1750→. [Various
(42) G.O. series.] Lond. 1774→
- 5221 **Oxford University.** Astrographic catalogue. Vol. 1→
(42) O.U. Edin. 1906→

- 5221 **Radcliffe observatory.** Observations. Vol. 19→
(42) R.O. Oxf. 1861→
- 5221 — Star catalogues. Oxf. 1860→
(42) R.S.
- 5221 **Observatoire de Paris.** Annales: Mémoires. Vol. 1→
(44) P.M. Paris 1855→
- 5221 — Annales: Observations. 1800→ Paris 1858→
(44) P.O.
- 5221 **Observatoire royal de Belgique.** Annales astrono-
(493) B.A. I mique. Vol. 8→ Brux. 1904→
- 5221 — Annales: Physique du globe. Vol. 3→
(493) B.A. 2 Brux. 1905→
- 5221 — Annuaire astronomique. Brux. 1901→
(493) B.A.A.
- 5221 **Madras and Kodaikanal observatory.** Astronomica
(548) M.A. observations. [*Various series.*] Madras 1832→
- 5221 **Cape of Good Hope observatory.** Annals. Vol. 1→
(687) C.A. Lond. 1896→
- 5221 — Meridian observations, 1859→ Cape Town 1874→
(687) C.M.O.
- 5221 — Star catalogues, 1834→ Cape Town 1873→
(687) C.S.
- 5221 **Yale University observatory.** Reports, 1887→
(746) Y.R. [New Haven 1887→
- 5221 — Trans. Vol. 1→ New Haven 1904→
(746) Y.T.
- 5221 **Smithsonian Institution.** Annals of the Astrophysical
(753) S.A. observatory. Vol. 1→ Wash. 1900→
- 5221 **Rio de Janeiro observatory.** Annuario 1888-90,
(81) R.An. 1892-1903, 1905→ Rio de Janeiro 1888→
- 5221 — Boletim, 1909→ Rio de Janeiro 1912→
(81) R.B.
- 5221 **Batavia observatory.** Verhandelingen. No. 1→
(922) B.V. Batavia 1911→

·52 ASTRONOMY

·5227 SPHERICAL ASTRONOMY.

- 5227 **Ball, Sir R. S.** Treatise on spherical astronomy.
Camb. 1908.
- 5227 **Newcomb, S.** Compendium of spherical astronomy.
New York 1906.

·523 DESCRIPTIVE ASTRONOMY.

- 523021 **Chambers, G. F.** Handbook of descriptive and practical
astronomy. 3 vols. Oxf. 1889-90.
- 523022 **Ball, Sir R. S.** Story of the heavens. Lond. 1886.
- 523022 **Grimthorpe, Sir E. Beckett, 1st baron.** Astronomy
without mathematics. Lond. 1876.
- 523022 **Moulton, F. R.** Introduction to astronomy.
New York 1906.
- 523022 **Newcomb, S.** Astronomy for everybody. Lond. 1908.
- Λ **Bain, A.** Astronomy. Edin. 1848.
- 523023 **Ball, Sir R. S.** Astronomy. Lond. 1892.
- 52304 — In the high heavens. Lond. 1893.
- 52304 — In starry realms. Lond. 1892.
- 52304 — Star-land. Lond. 1896.
- 52304 **Miller, R. K.** The Romance of astronomy. Lond. 1882.
- 52304 **Nichol, J. P.** [*M.A., King's Coll.*]. Architecture of the
heavens. Edin. 1843.
- 52304 — The Stellar universe. Edin. 1848.
- 52304 — Thoughts on the system of the world. Edin. 1846.
- 52304 **Proctor, R. A.** Myths and marvels of astronomy.
Lond. 1878.
- 52304 — The Orbs around us. Lond. 1872.
- 52304 — Other suns than ours. Lond. 1876.
- 52304 — Our place among the infinities. Lond. 1876.
- 52304 — The Poetry of astronomy. Lond. 1881.
- 52304 **Wallace, A. R.** Man's place in the universe.
Lond. 1904.

5231 THE UNIVERSE.

- 5232 SOLAR SYSTEM.

- 71

·52 ASTRONOMY

- 52373 **Hale, G. E., and Fox, P.** Rotation period of the sun.
Wash. 1908.
- 52373 **Hubrecht, J. B.** The Solar rotation in June, 1911, from
spectroscopic observations. Camb. 1915.
- 52374 **Birkeland, K.** Recherches sur les taches du soleil.
Christiania 1899.
- 52374 **Peters, C. H. F.** Heliographic positions of sun spots.
Wash. 1907.
- 52376 **Lockyer, Sir J. N.** Contributions to solar physics.
Lond. 1874.
- f:·52377 **McClean, F.** Comparative spectra of the high sun and
low sun. Lond. [1890].
- f:·52377 ——— Comparative spectra of the sun and the metals.
Lond. [1891].
- 52378 **Langley, S. P., and Abbot, C. G.** The 1900 solar
eclipse expedition. Wash. 1904.
- 52378 **Naegamvala, K. D.** Report on solar eclipse of 1898.
Bombay 1902.

·5238 STELLAR SYSTEM.

- 5238 **Hale, G. E.** The Study of stellar evolution.
Chicago 1909.
- 5238 **See, T. J. J.** Evolution of the stellar systems. 2 vols.
Lynn, Mass. 1896-1900.
- 52381 **Russell, H. N.** Determinations of stellar parallax.
Wash. 1911.
- 52382 **Parkhurst, J. A.** Researches in stellar photometry.
Wash. 1906.
- 52382 **Yntema, L.** On the total amount of starlight.
Groningen 1909.
- 52383 **Burnham, S. W.** Measures of proper motion stars.
Wash. 1913.
- 52383 **Campbell, W. W.** Stellar motions.
New Haven, Conn. 1913→
- 52383 **Maanen, A. van.** The Proper motions of 1418 stars.
Utrecht 1911.

·52 ASTRONOMY

- 52385 **Newcomb, S.** On the position of the planes towards which the stars tend to crowd. Wash. 1904.
- 52387 **Huggins, Sir W., and M., Lady.** Atlas of stellar spectra. Lond. 1899.
- 52389 **Burnham, S. W.** Catalogue of double stars. 2 vols. Wash. 1906.
- 52389 **Knobel, E. B.** Ulugh Beg's Catalogue of stars. Wash. 1917.
- 52389 **Peters, C. H. F., and Knobel, E. B.** Revision of Ptolemy's Almagest. Wash. 1915.

·525 THE EARTH.

- 52512 **Poynting, J. H.** The Mean density of the Earth. Lond. 1894.
- 52524 **Wilde, A.** Causes of the phenomena of terrestrial magnetism. [Lond. 1891.]
- 52535 **De Horsey, Sir A. F.** Draysonia: Second rotation of the earth. Lond. 1911.
- 5256 **Darwin, Sir G. H.** The Tides and kindred phenomena. Lond. 1898.

·526 GEODESY.

- 526 **Burrard, Sir S. G.** Investigations of isostasy. Dehra Dun 1918.
- 5263 **Hunter, J. de G.** The Earth's axes and triangulation. Dehra Dun 1918.
- 5266 **Mackay, A.** [*LL.D., King's and Mar. Coll.*]. Determination of the latitude and longitude of Aberdeen. [Edin. 1793-96.]
- 52673 **Couchman, H. J.** Pendulum operations in India and (54) Burma. Dehra Dun 1915.
- 5269 **Baker, T.** Land and engineering surveying. Lond. 1898.
- 5269 **Duplessis, J.** Traité du levé des plans et de l'arpentage. Paris 1901.
- 5269 **Hammer, E.** Lehrbuch der elementaren praktischen Geometrie. Vol. 1→ Leip. 1911→
- 5269 **Usill, G. W.** Practical surveying. Lond. 1901.

·52 ASTRONOMY

- 5269 **Whitelaw, J.** Surveying. Lond. 1902.
- 5269 **Wilson, H. M.** Topographic surveying.
New York 1908.
- 5269(42) **Ordnance survey.** Methods adopted for the produc-
tion of maps of the United Kingdom. Lond. 1902.
- 5269(54) **India trigonometrical survey.** Account of operations.
Vol. 1→ Dehra Dun 1870→
- 5269(68) **South Africa geodetic survey.** Report. Vol. 1→
Cape Town 1896→
- 52691 **Flemer, J. A.** Photomicrographic methods and instru-
ments. New York 1906.
- 52698 **Reed, H. A.** Topographical drawing and sketching.
2 vols. New York 1895.
- 52699 **Lockyer, Sir J. N.** Surveying for archæologists.
Lond. 1909.

·527 NAVIGATION.

- 527 **Hall, W.** Modern navigation. Lond. 1904.

·528 EPHEMERIDES.

- 528 B.L. **Bureau des longitudes.** Annuaire. 1829-54, 1865→
Paris 1828→
- 528 C.T. **Connaissance des temps.** 1849, 1860→ Paris 1846→
- 528 N.A. **Nautical almanac.** 1767→ Lond. 1766→

·529 CHRONOLOGY.

- 52902 **Ginzel, F. K.** Handbuch der mathematischen und
technischen Chronologie. 3 vols. Leip. 1906-14.
- 913 **Lockyer, Sir J. N.** Stonehenge and other British stone
(4231) monuments astronomically considered.
Lond. 1909.
- 52904 **Nilsson, M. P.** Primitive time-reckoning. Lund 1920.
- 52904 **Philip, A.** Improvement of the Gregorian calendar.
Lond. 1918.
- 5297 **Benson, J. W.** Time and time tellers. Lond. 1902.
- 5297 **Cunynghame, H. H. S.** Time and clocks. Lond. 1909.
- 52978 **Gatty, Mrs. A.** Book of sundials. Lond. 1890.

·53 PHYSICS.

- 5301 **Brose, H. L.** Theory of relativity. Oxf. 1919.
- 5301 **Carmichael, R. D.** The Theory of relativity.
New York 1913.
- p ·5301 **Cohn, E.** Physikalisches über Raum und Zeit. Vierte
Auflage. Leip. 1920.
- 51082 **Conway, A. W.** Relativity. Lond. 1915.
Edi
- 5301 **Cunningham, E.** The Principle of relativity.
Camb. 1914.
- 5301 **Dolbear, A. E.** Matter, ether, and motion. Lond. 1903.
- 5301 **Duhem, P.** La Notion de théorie physique de Platon à
Galilée. Paris 1908.
- 5301 **Eddington, A. S.** Report on the relativity theory of
gravitation. Lond. 1920.
- 5301 — Space, time, and gravitation: an outline of the
general relativity theory. Camb. 1920.
- 5301 **Einstein, A.** Relativity—the special and the general
theory. Lond. 1920.
- 5301 **Freundlich, E.** Foundations of Einstein's theory of
gravitation. Camb. 1920.
- 5301 **Harrow, B.** From Newton to Einstein: changing con-
ceptions of the Universe. Lond. 1920.
- 5301 **Larmor, J.** Aether and matter. Camb. 1900.
- 5301 **Le Bon, G.** L'Évolution de la matière. Paris 1905.
- 5301 — Evolution of forces. Lond. 1908.
- 0826 **Lodge, Sir O. J.** Modern views on matter. Oxf. 1903.
Rom 2

·53 PHYSICS

- 5301 **Manville, O.** *Les Découvertes modernes en physique.* Paris 1909.
- 5301 **Richardson, O.** *Electron theory of matter.* Camb. 1914.
- 5301 **Robb, A. A.** *Absolute relations of time and space.* Camb. 1921.
- 5301 — *Optical geometry of motion : new view of theory of relativity.* Camb. 1911.
- 5301 — *A Theory of time and space.* Camb. 1914.
- 5301 **Sampson, R. A.** *On gravitation and relativity.* Oxf. 1920.
- 5301 **Schlick, M.** *Space and time in contemporary physics : an introduction to the theory of relativity and gravitation.* Oxf. 1920.
- 5301 **Silberstein, L.** *The Theory of relativity.* Lond. 1914.
- 5301 **Slosson, E. E.** *Easy lessons in Einstein.* Lond. 1920.
- 5301 **Tait, P. G.** *Properties of matter.* Lond. 1907.
- 5301 **Thomson, Sir J. J.** *Relation between ether and matter.* Manch. 1908.
- 5301 **Tolman, R. C.** *The Theory of the relativity of motion.* Berkeley 1917.

·5302 MANUALS.

- 53021 **Bouasse, H.** *Cours de physique.* 6 pts. Paris 1907-09.
- 53021 **Campbell, N. R.** *Physics, the elements.* [Pt. 1→] Camb. 1920→
- 53021 **Chwolson, O. D.** *Traité de physique.* Vol. 1→ Paris 1906→
- 53021 **Gray, A.** *Treatise on physics.* Vol. 1→ Lond. 1901→
- 53021 **Jamin, J. C.** *Cours de physique.* 4 vols. (Suppl. 1, 2, 3 par M. Bouty.) Paris 1878-1906.
- 53021 **Kelvin, Sir W. Thomson, 1st baron, and Tait, P. G.** *Treatise on natural philosophy.* 2 pts. Camb. 1912.

·53 PHYSICS

53021	Poynting, J. H., and Thomson, Sir J. J. Text-book of physics. Properties of matter (Sound; Heat; Electricity). Lond. 1913 (1920).
53021	Warburg, E. Physik. Unter Redaktion von E. Warburg. (Kultur der Gegenwart.) Leip. 1915.
53021	Winkelmann, A. Handbuch der Physik. 6 vols. Leip. 1903-09.
53021	Wüllner, A. Lehrbuch der Experimentalphysik. Vol. 1→ Leip. 1907→
53022	Arnott, N. [<i>M.A., Mar. Coll., 1805</i>]. Elements of physics. Ed. A. Bain [<i>M.A., 1840</i>], and A. S. Taylor. Lond. 1876.
53022	Chappuis, J., and Berget, A. Leçons de physique générale. Vol. 1→ Paris 1899→
53022	Christiansen, C. Elements of theoretical physics. Lond. 1897.
53022	Daniell, A. Principles of physics. New York 1911
53022	Deschanel, A. P. Elementary treatise on natural philosophy. Lond. 1890.
53022	Ganot, A. Elementary treatise on physics, experimental and applied. Lond. 1910.
53022	Kundt, A. Vorlesungen über Experimentalphysik. Braunsch. 1903.
53022	Lorentz, H. A. Lehrbuch der Physik. 2 vols. Leip. 1906-07.
53022	Millikan, R. A., and Mills, J. Mechanics, molecular physics and heat. (Electricity, sound and light.) Boston [Mass.] 1903 (1908).
53022	Watson, W. Text-book of physics. Lond. 1899.
53023	Houston, R. A. Elements of physics. Lond. 1919.
53023	Stewart, B. Lessons in elementary physics. Lond. 1899.
5304	Planck, M. Acht Vorlesungen über theoretische Physik. Leip. 1910.

·53 PHYSICS

·5305 PERIODICALS.

- 5305 A.P. I **Annalen der Physik** [und **Chemie** to 1899]. Vol. 143→ Leip. 1846→
- 5305 A.P. 4 ——— **Beiblätter**. 43 vols. Leip. 1877-1919.
- 5305 A. Ph. **Annales de physique** [*previously Annales de chimie et de physique*, '5405]. Vol. 1→ Paris [1914→
- 5305 F.P. **Fortschritte der Physik**. Vol. 1→ Berl. 1847→
- 5305 J.P. **Journal de physique**. Ser. iv, vol. 5→ Paris 1906→
- 5305 N.C. **Nuovo cimento**. Ser. v, vol. 9→ Pisa 1905→
- 5305 P.B. **Physikalische Berichte**. Vol. 1→ Braunsch. 1920→
- 5305 P.Z. **Physikalische Zeitschrift**. Vol. 1→ Leip. 1900→
- 5305 R.P. **Repertorium für physikalische Technik**. Vols. 1-27. München 1866-91.
- 5305 S.A. **Science abstracts**. Vols. 1-5. Lond. 1898-1902.
 Sect. A. **Physics**. Vol. 16→ Lond. 1903→
 Sect. B. **Electrical engineering**. Vol. 6→ Lond. 1903→
- 5306 L.P. **Physical society of London**. Proc. Vol. 1→ Lond. 1876→
- 5306(44) **Congrès international de physique**. Rapports. 4 vols. Paris 1900-01.
- 5306(73) **Bureau of standards**. Bulletin. Vol. 1→ Wash. 1905→
 B.S.
- 5306(744) **Harvard University**, Jefferson physical laboratory. Contributions. Vol. 1→ Camb. [Mass. 1904→]

·5307 METHODS OF STUDY.

- 5307 **Abraham, H.** **Recueil d'expériences élémentaires de physique**. 2 vols. Paris 1904.
- 5307 **Auerbach, F.** **Physik in graphischen Darstellungen**. Leip. 1912.
- 5307 **Glazebrook, Sir R. T., and Shaw, Sir W. N.** **Practical physics**. Lond. 1918.

53 PHYSICS

- 5307 **Gregory, R. A., and Simmonds, A. T.** Elementary physics and chemistry. 3 vols. Lond. 1901-02.
- 5307 — Exercises in practical physics. 2 vols. Lond. 1899-1901.
- 5307 **Kohlrausch, F.** Lehrbuch der praktischen Physik. Leip. 1905.
- 5307 **Schuster, A., and Lees, C. H.** Advanced exercises in practical physics. Camb. 1901.
- 5307 — Course of practical physics. Lond. 1896.
- 5307 **Stewart, B., and Gee, W. H. H.** Elementary practical physics. Vol. 1→ Lond. 1885→
- 5307 **Watson, W.** Elementary practical physics. Lond. 1906.
- 5307 — Text-book of practical physics. Lond. 1906.

5308 COLLECTED WORKS.

- 53081 **Adams, J. C.** Scientific papers. 2 vols. Camb. 1896-1900.
- 53081 **Andrews, T.** Scientific papers. Lond. 1889.
- 53081 **Curie, P.** Œuvres. Paris 1908.
- 53081 **Fitzgerald, G. F.** Scientific writings. Dubl. 1902.
- 53081 **Foucault, L.** Travaux scientifiques. Paris 1878.
- 53081 **Franklin, B.** Works. 3 vols. Lond. 1806.
- 53081 **Fresnel, A. J.** Œuvres. 3 vols. Paris 1866-70.
- 53081 **Gibbs, J. W.** Scientific papers. 2 vols. Lond. 1906.
- 53081 **Green, G.** Mathematical papers. Lond. 1871.
- 53081 **Helmholtz, H. L. F. von.** Vorlesungen über theoretische Physik. 6 vols. Hamb., Leip. 1897-1901.
- 53081 — Wissenschaftliche Abhandlungen. 3 vols. Leip. 1882-95.
- 53081 **Hertz, H.** Werke. 3 vols. Leip. 1894-95.
- 53081 **Hopkinson, B.** Scientific papers. Camb. 1921.
- 53081 **Hopkinson, J.** Original papers. 4 vols. Camb. 1901.
- 53081 **Joule, J. P.** Scientific papers. 4 vols. Lond. 1884-87.
- 53081 **Kelvin, Sir W. Thomson, 1st baron.** Mathematical and physical papers. 6 vols. Camb. 1882-1911.

53 PHYSICS

- 53081 **Kirchhoff, G.** Gesammelte Abhandlungen. (Nachtrag.)
Leip. 1882 (1891).
- 53081 **Kohlrausch, F.** Gesammelte Abhandlungen. 2 vols.
Leip. 1910-11.
- 53081 **Lloyd, H.** Papers connected with physical science.
Lond. 1877.
- 53081 **Lorentz, H. A.** Abhandlungen über theoretische Physik.
Vol. 1→ Leip. 1907→
- 53081 **Lorenz, L. V.** Œuvres scientifiques. 2 vols.
Copenh. 1898-1904.
- 53081 **MacCullagh, J.** Collected works. Dubl. 1886.
- 53081 **Maxwell, J. Clerk.** Scientific papers. 2 vols.
Camb. 1890.
- 53081 **Poynting, J. H.** Collected scientific papers.
Lond. 1881.
- 53081 **Rankine, W. J. M.** Miscellaneous scientific papers.
Lond. 1881.
- 53081 **Rayleigh, J. W. Strutt, 3rd baron.** Scientific papers.
6 vols. Camb. 1899-1920.
- 53081 **Reynolds, O.** Papers on mechanical and physical sub-
jects. Vol. 1→ Camb. 1900→
- 53081 **Rowland, H. A.** Physical papers. Baltimore 1902.
- 53081 **Rumford, B., Count.** Works. 5 vols. Lond. 1876.
- 53081 **Stokes, Sir G. G.** Mathematical and physical papers.
5 vols. Camb. 1880-1905.
- 53081 **Tait, P. G.** Scientific papers. Vol. 1→ Camb. 1898→
- 53081 **Thomson, J.** Collected papers on physics and en-
gineering. Camb. 1912.
- 53081 **Verdet, E.** Œuvres. 8 vols. Paris 1868-72.
- 53081 **Weber, W.** Werke. 6 vols. Berl. 1892-94.
- 53081 **Wheatstone, Sir C.** Scientific papers. 2 vols.
Lond. 1879.
- 53081 **Young, T.** Miscellaneous works. 3 vols. Lond. 1855.

·53 PHYSICS

- 53082 **OSTWALD'S KLASSIKER.** No. 1→ Leip. 1889→
- 53082 **Physical society of London.** Physical memoirs selected from foreign sources. Vol. 1, pts. 1-3. Lond. 1888-90.
- 53082 **Société française de physique.** Collection de mémoires relatifs à la physique. 5 vols. Paris 1884-91.
- 53082 **Tyndall, J., and Francis, W.** Scientific memoirs selected from foreign transactions and journals. Lond. 1853.
- 53083 **Abraham, H., and Sacerdote, P.** Recueil de constantes physiques. Paris 1913.

·5309 HISTORY.

- 5309 **Cajori, F.** History of physics in its elementary branches. New York 1899.
- 5309 **Poincaré, L.** The New physics and its evolution. Lond. 1907.
- 5309 **Schuster, A.** Progress of physics. 1875-1908. Camb. 1911.
- 5309 **Tait, P. G.** Recent advances in physical science. Lond. 1876.
- 5309 **Whetham, W. C. D.** Recent developments of physical science. Lond. 1904.
- 016 : 531 **Royal Society.** International catalogue of scientific literature. Mechanics. [1901→] Lond. 1902→
- 016 : 53 — — — Physics. [1901→] Lond. 1902→
- 92 : 53 **Glazebrook, R. T.** James Clerk Maxwell and modern physics. Lond. 1896.
- 92 : 53 **Jones, H. B.** Life and letters of Faraday. 2 vols. Lond. 1870.
- 92 : 53 **Koenigsberger, L.** Hermann von Helmholtz. Oxf. 1906.
- f. ·92 : 53 **Knott, C. G.** Life and scientific work of Peter Guthrie Tait. Camb. 1911.
- 92 : 5308 **Macfarlane, A.** Ten British physicists of the nineteenth century. New York 1919.

·53 PHYSICS

·531 MECHANICS [DYNAMICS].

- 53101 **Hertz, H.** Principles of mechanics. Lond. 1899.
- 53101 **Mach, E.** Science of mechanics. Chicago 1902.
- 531021 **Appell, P.** Traité de mécanique rationnelle. 4 vols.
Paris 1911-21
- 531021 **Barton, E. H.** Analytical mechanics. Lond. 1911.
- 531022 **Glazebrook, R. T.** Mechanics [and hydrostatics].
Camb. 1902.
- 531022 **Jeans, J. H.** Elementary treatise on theoretical
mechanics. Boston [Mass.] 1907.
- 531022 **Tait, P. G.** Dynamics. Lond. 1895.
- 531023 **Ball, Sir R. S.** Mechanics. Lond. 1893.
- 531023 **Emtage, W. T. A.** Elementary mechanics of solids.
Lond. 1900.
- 531023 **Lodge, Sir O. J.** Elementary mechanics, including
hydrostatics and pneumatics. Lond. 1919.
- 53104 **Maxwell, J. Clerk.** Matter and motion. Lond. 1920.
- 53104 **Silberstein, L.** Vectorial mechanics. Lond. 1913.
- 53107 **Ball, Sir R. S.** Experimental mechanics. Lond. 1906.

·5311 KINEMATICS.

- 5311 **Clifford, W. K.** Elements of dynamic. Pt. 1. Kine-
matic. 2 vols. Lond. 1878-87.
- 5311 **Poincaré, H.** Cinématique et mécanismes.
Paris 1899.

·5312 STATICS.

- 5312 **Lamb, H.** Statics, including hydrostatics.
Camb. 1912.
- 5312 **Loney, S. L.** An Elementary treatise on statics.
Camb. 1920.
- 5312 **Minchin, G. M.** Treatise on statics. 2 vols.
Oxf. 1915.
- 5312 **Routh, E. J.** Treatise on analytical statics. 2 vols.
Camb. 1908-09.

·53 PHYSICS

- 5312 **Todhunter, I.** Treatise on analytical statics.
Lond. 1887.
- 531209 **Duhem, P.** Les Origines de la statique. 2 vols.
Paris 1905-06.
- 53125 **Charnock, G. F.** Exercises on graphic statics. 3 vols.
Manch. [1909.]
- 53125 **Cremona, L.** Graphical statics. Oxf. 1890.

·5313 KINETICS [DYNAMICS].

- 5313 **Gray, A., and Gray, J. G.** A Treatise on dynamics,
with examples and exercises. Lond. 1911.
- 5313 **Greenhill, Sir G.** The Dynamics of mechanical flight.
Lond. 1912.
- 5313 **Hicks, W. M.** Elementary dynamics of particles and
solids. Lond. 1890.
- 5313 **Lamb, H.** Dynamics. Camb. 1914.
- 5313 — Higher mechanics. Camb. 1920.
- 5313 **Loney, S. L.** Elementary treatise on the dynamics of a
particle and of rigid bodies. Camb. 1919.
- 5313 **Love, A. E. H.** Treatise on principles of dynamics.
Camb. 1907.
- 5313 **Routh, E. J.** Treatise on dynamics of a particle.
Camb. 1898.
- 5313 **Tait, P. G., and Steele, W. J.** Dynamics of a particle.
Lond. 1878.
- 5313 **Webster, A. G.** Dynamics of particles and of rigid,
elastic, and fluid bodies. Leip. 1904.
- 5313 **Whittaker, E. T.** Treatise on analytical dynamics of
particles and rigid bodies. Camb. 1904.
- 5313 **Williamson, B., and Tarleton, F. A.** An Elementary
treatise on dynamics. Lond. 1900.
- 53134 **Appell, P.** Les Mouvements de roulement en dyna-
mique. [Paris] 1899.
- 53134 **Gray, A.** Treatise on gyrostatics and rotational
motion. Lond. 1918.

53 PHYSICS

Λ	Pirie, G.	Lessons on rigid dynamics.	Lond. 1875.
·53136	Routh, E. J.	Dynamics of a system of rigid bodies.
Elementary part.	Lond. 1891.
·53136	—— —	Advanced part.	Lond. 1884.
·53136	Worthington, A. M.	Introduction to rigid dynamics.	Lond. 1892.
·5315	Cranz, C.	Lehrbuch der Ballistik. Vol. 1→	Leip. 1910→
·53151	Tarleton, F. A.	Mathematical theory of attraction.	Lond. 1899.
·53161	Ostwald, W.	L'Énergie.	Paris 1910.

532 HYDROMECHANICS.

·53202	Besant, W. H., and Ramsey, A. S. Treatise on hydromechanics. 2 pts. Lond. 1911-13.
·53202	Wien, W. Lehrbuch der Hydrodynamik. Leip. 1900.
·5321	Greenhill, Sir G. Treatise on hydrostatics. Lond. 1894.
·5321	Minchin, G. M. Treatise on hydrostatics. 2 vols. Oxf. 1912.
·5322	Poincaré, H. Figures d'équilibre d'une masse fluide. Paris 1902.
·5325	Basset, A. B. Treatise on hydrodynamics. 2 vols. Camb. 1888.
·5325	Lamb, H. Hydrodynamics. Camb. 1906.
·53259	Hadamard, J. La Propagation des ondes et les équations de l'hydrodynamique. Paris 1903.
·5326	Poincaré, H. Capillarité. Paris 1895.
·53272	Findlay, A. Osmotic pressure. Lond. 1913.
·5328	Dunkerley, S. Hydraulics. 2 vols. Lond. 1907-08.

533 PNEUMATICS.

53323	Décombe, L.	La Compressibilité des gaz réels.	Paris [1903]
5336	Bacon, J. M.	By land and sky.	Lond. 1900.

·53 PHYSICS

- 5336 **Berget, A.** The Conquest of the air. Lond. 1911.
 ·5336 **Bryan, G. H.** Stability in aviation. Lond. 1911.
 ·5336 **Lanchester, F. W.** Aerodynamics. Lond. 1907.
 ·53365 **Wakden, S. L.** Stability of aeroplanes. Lond. 1913.
 ·5337 **Boltzmann, L.** La Théorie des gaz. 2 vols.
 Paris 1902-05.
 ·5337 **Jeans, J. H.** Dynamical theory of gases. Camb. 1921.
 ·5337 **Meyer, O. E.** Kinetic theory of gases. Lond. 1899.
 ·5337 **Pedersen, F. M.** Internal friction of gases.
 New York 1899.

·534 SOUND.

- 53402 **Barton, E. H.** Text-book on sound. Lond. 1908.
 ·53402 **Everett, J. D.** Text-book of sound and light. (Des-
 chanel's Natural philosophy.) Lond.
 ·53402 **Stone, W. H.** Elementary lessons on sound.
 Lond. 1908.
 ·5341 **Lamb, H.** Dynamical theory of sound. Lond. 1910.
 ·5341 **Rayleigh, J. W. Strutt, 3rd baron.** Theory of sound.
 2 vols. Lond. 1894-96.
R.R. **Thomson, D.** Acoustics. In Encycl. Brit., 9th ed.,
 vol. i. Edin. 1875.
 ·78122 **Dunk, J. L.** Hyperacoustics. Div. 1→ Lond. 1916→
 ·5343 **Helmholtz, H. L. F. von.** On the sensations of tone.
 2 vols. Lond. 1885.
 ·7801 **Watt, H. J.** The Foundations of music. Camb. 1919.
 ·1522 — The Psychology of sound. Camb. 1917.

·535 LIGHT.

- 53502 **Edser, E.** Light, for students. Lond. 1919.
 ·53502 **Glazebrook, R. T.** Light, an elementary text-book.
 Camb. 1902.
 ·53502 **Mascart, E.** Traité d'optique. 4 vols. Paris 1889-94.
 ·53504 **Hastings, C. S.** Light, a consideration of the more
 familiar phenomena of optics. New York 1902.

·53 PHYSICS

- 53504 **Stokes, Sir G. G.** Burnett lectures on light.
Lond. 1887.
- 53507 **Mann, C. R.** Manual of advanced optics.
Chicago 1902.
- 53507 **Thompson, S. P.** Light visible and invisible.
Lond. 1897.
- 535 : 5515 **Pernter, J. M., and Exner, F. M.** Meteorologische
Optik. Wien 1910.

·5351 THEORIES.

- 5351 **Drude, P.** Theory of optics. Lond. 1902.
- 5351 **Maclaurin, R. C.** Theory of light. Vol. 1→
Camb. 1908→
- 5351 **Poincaré, H.** Leçons sur la théorie mathématique de
la lumière. 2 vols. Paris 1889-92.
- 5351 **Preston, T.** Theory of light. Lond. 1912.
- 5351 **Schuster, A.** Theory of optics. Lond. 1904.
- 5351 **Walker, J.** Analytical theory of light. Camb. 1904.
- 5352 **Michelson, A. A.** Light waves and their uses.
Chicago 1903.
- 535213 **Rigollot, H.** Recherches expérimentales sur quelques
actinomètres. Paris 1897.
- 53522 **Décombe, L.** La Célérité des ébranlements de l'éther.
[Paris] 1900.

·5353 GEOMETRICAL OPTICS.

- Λ^2 **Gregory, D.** [*M.A., Mar. Coll., 1675*]. Catoptricæ et
dioptricæ sphericæ elementa. Edin. 1713.
- Λ^2 **Gregory, J.** [*M.A., Mar. Coll., 1657*]. Optica promota.
Lond. 1663.
- 53531 **Herman, R. A.** Treatise on geometrical optics.
Camb. 1900.
- 53531 **Southall, J. P. C.** Mirrors, prisms, and lenses.
New York 1918.
- 535324 **Chéveneau, C.** Les Propriétés optiques des solutions.
Paris 1913.

·53 PHYSICS

- 53533 **Cotton, A., and Moulin, H.** *Les Ultramicroscopes.*
Paris 1906.
- 53537 **Nichols, E. L., and Howes, H. L.** *Fluorescence of the
uranyl salts.* Wash. 1919.
- 53537 **Nichols, E. L., and Merritt, E.** *Studies in luminescence.*
Wash. 1912.
- 53538 **Sheppard, S. E.** *Photo-chemistry.* Lond. 1914.

·5354 PHYSICAL OPTICS.

- 5354 **Basset, A. B.** *Treatise on physical optics.*
Camb. 1892.
- 5354 **Glazebrook, R. T.** *Physical optics.* Lond. 1914.
- 5354 **Maclaurin, R. C.** *Light.* New York 1909.
- 5354 **Wood, R. W.** *Physical optics.* New York 1905.
- 5354I **Barus, C.** *Displacement interferometry.* Wash. 1919.
- 5354I ——— *Interferometry of reversed and non-reversed spectra.*
Pt. 1→ Wash. 1916→
- 5354I ——— *Production of elliptic interferences.* Pt. 1→
Wash. 1911→
- 5354I **Macé de Lépinay, J.** *Franges d'interférence.*
[Paris] 1902.
- 5354II **Barus, C.** *Displacement interferometer.* Wash. 1915.
- 5356 **Abney, W. de W.** *Researches in colour vision.*
Lond. 1913.

·5357 PHYSIOLOGICAL OPTICS.

- 5357 **Helmholtz, H. L. F. von.** *Handbuch der physio-
logischen Optik.* Hamb. 1896.

·5358 APPLICATIONS.

- 5358 **Steinheil, A., and Voit, E.** *Applied optics.* Vol. 1→
Lond. 1918→
- 5358 **Whittaker, E. J.** *Theory of optical instruments.*
Camb. 1907.
- 5358 **Zeiss, C.** *Die Theorie der optischen Instrumente.*
Berl. 1904.

·53 PHYSICS

- 5358I **Leathem, J. G.** Theory of the symmetrical optical instrument. Camb. 1908.
- 53584 **Zeeman, P.** Researches in magneto-optics. Lond. 1913.
- 53585 **Lummer, O.** Contribution to photographic optics. Lond. 1900.
- 53589 **Houstoun, R. A.** Studies in light production. Lond. [1912].

·536 HEAT.

- 53602 **Edser, E.** Heat for advanced students. Lond. 1899.
- 53602 **Everett, J. D.** Heat. (Deschanel's Natural philosophy, pt. 2.) Lond. [1902].
- 53602 **Glazebrook, R. T.** Heat. Camb. 1902.
- 53602 **Jones, D. E.** Lessons in heat and light. Lond. 1892.

·536I THEORIES.

- 536I **Fourier, J. B. J., *baron*.** Analytical theory of heat. Camb. 1878.
- 536I **Ingersoll, L. R., and Zobel, O. J.** Theory of heat conduction. Boston [Mass. 1913].
- 536I **Maxwell, J. Clerk.** Theory of heat. Lond. 1871.
- 536I **Poincaré, H.** Théorie analytique de la propagation de la chaleur. Paris 1895.
- 536I **Preston, T.** Theory of heat. Lond. 1919.
- 53633 **Planck, M.** Vorlesungen über die Theorie der Wärmestrahlungen. Leip. 1906.
- 53643 **Raoult, F. M.** Cryoscopie. [Paris] 1901.
- 53644 **Mathiàs, E.** Le Point critique des corps purs. Paris 1904.

·5365 TEMPERATURE.

- 5365I **Bolton, H. C.** Evolution of the thermometer. Easton, Pa. 1900.
- 5365II **Day, A. L., and Sosman, R. B.** High temperature gas thermometry. Wash. 1911.

53 PHYSICS

5367 THERMODYNAMICS.

- *5367 **Blondlot, R.** Introduction à l'étude de la thermodynamique. Paris 1909.
- *5367 **Bryan, G. H.** Thermodynamics, an introductory treatise. Leip. 1907.
- *5367 **Duhem, P.** Traité d'énergétique ou de thermodynamique générale. 2 vols. Paris 1911.
- *5367 **Lippmann, G.** Thermodynamique. Paris 1905.
- *5367 **Mills, J.** Introduction to thermodynamics. Boston [Mass. 1910].
- *5367 **Planck, M.** Treatise on thermodynamics. Lond. 1903.
- *5367 **Poincaré, H.** Thermodynamique. Paris 1892.
- *5367 **Waals, J. D. van der.** Lehrbuch der Thermodynamik. 2 vols. Leip. 1908-12.
- *536709 **Tait, P. G.** Sketch of thermodynamics. Edin. 1877.
- *53671 **Gibbs, J. W.** Diagrammes et surfaces thermodynamiques. [Paris] 1903.
- *536762 ——— Statistical mechanics with reference to rational foundations of thermodynamics. New York 1902.

537 ELECTRICITY.

- *537021 **Duhem, P.** Leçons sur l'électricité et le magnetisme. 3 vols. Paris 1891-92.
- *537021 **Gray, A.** Treatise on magnetism and electricity. Vol. 1. Lond. 1898.
- *537021 **Maxwell, J. Clerk.** Treatise on electricity and magnetism. 2 vols. Oxf. 1873.
- *537022 **Everett, J. D.** Electricity (Deschanel's Natural philosophy, part 3). Lond. [1907].
- *537022 **Hadley, H. E.** Magnetism and electricity for students. Lond. 1909.
- Δ **Bain, A.** Electricity. Edin. 1848.
- *537023 **Foster, G. C., and Porter, A. W.** Elementary treatise on electricity and magnetism. Lond. 1903.
- *537023 **Glazebrook, R. T.** Electricity and magnetism. Camb. 1903.

·53 PHYSICS

- 537023 **Jamieson, A.** Elementary manual of magnetism and electricity. Lond. 1900.
- 537023 **Thompson, S. P.** Elementary lessons in electricity and magnetism. Lond. 1919.
- 53704 **Sanford, F.** A Physical theory of electrification. Stanford, Cal. 1911.
- 53704 **Thomson, Sir J. J.** Recent researches in electricity and magnetism. Oxf. 1893.
- 53704 **Trowbridge, J.** What is electricity? Lond. 1897.
- 53705 J.T. **Jahrbuch der drahtlosen Telegraphie und Telephonie.** Vol. 1→ Leip. 1908→
- 53705 **Year-book of wireless telegraphy and telephony.** Y.W. 1913→ Lond. [1915→]
- 53705 L.E. **Lumière électrique, La.** Vols. 1-51. Paris 1879-94.
- 53705 L.E. — Ser. II., vol. 9→ Paris 1910→
- 537:535 **Allen, H. S.** Photo-electricity. Lond. 1913.

·537I THEORIES.

- 537I **Abraham, H., and Langevin, P.** Les Quantités élémentaires de l'électricité —ions, electrons, corpuscles. Paris 1905.
- 537I **Abraham, M.** Theorie der Electrizarität. 2 vols. Leip. 1904-05.
- 537I **Ariès, E.** L'Électricité considérée comme forme de l'énergie. Pt. 1→ Paris 1909→
- 537I **Campbell, N. R.** Modern electrical theory. Camb. 1907.
- 537I **Carvallo, E.** L'Électricité déduite de l'expérience. [Paris] 1902.
- 537I **De Tunzelmann, G. W.** Treatise on electrical theory. Lond. 1910.
- 537I **Duhem, P.** Les Théories électriques de Clerk Maxwell. Paris 1902.
- 537I **Jeans, J. H.** Mathematical theory of electricity and magnetism. Camb. 1920.
- 537I **Lodge, Sir O. J.** Electrons. Lond. 1906.

·53 PHYSICS

- 537¹ **Lorentz, H. A.** Theory of electrons. Leip. 1909.
- 537¹ **Poincaré, H.** Électricité et optique. Paris 1901.
- 537¹ **Richarz, F.** Anfangsgründe der Maxwellschen Theorie. Leip. 1909.
- 537¹ **Thomson, Sir J. J.** Electricity and matter. Westm. 1904.
- 537¹ — Elements of the mathematical theory of electricity and magnetism. Camb. 1921.
- 537¹ **Whetham, W. C. D.** Theory of experimental electricity. Camb. 1905.

·5373 GALVANIC ELECTRICITY.

- 5373¹ **Brillouin, M.** Propagation de l'électricité. Paris 1904.
- 53733 **Hollard, A.** La Théorie des ions et de l'électrolyse. Paris 1900.
- 53733 **Townsend, J. S.** Theory of ionization of gases by collision. Lond. 1911.
- 53733 **Whetham, W. C. D.** Theory of solution, including electrolysis. Camb. 1902.
- 53733² **Arrhenius, S. A.** Text-book of electro-chemistry. Lond. 1904.
- 5374 **Mache, H., and Schweidler, E. R. von.** Die Atmosphärische Electricität. Braunsch. 1909.
- 537513 **Noyes, A. A.** Electrical conductivity of aqueous solutions. Wash. 1907.
- 53753 **McClung, R. K.** Conduction of electricity through gases. Lond. 1910.
- 53753 **Thomson, Sir J. J.** Conduction of electricity through gases. Camb. 1903.
- 53753 — Discharge of electricity through gases. Lond. 1898.
- 53753 **Townsend, J. S.** Electricity in gases. Oxf. 1915.

·5377 ELECTRIC UNITS.

- 5377² **Gray, A.** Absolute measurements in electricity and magnetism. 2 vols. Lond. 1888-93.
- 53773² **Richards, T. W., and Behr, G. E.** Electromotive force of iron. Wash. 1906.

·53 PHYSICS

- 537733 **Price, W. A.** Measurement of electrical resistance.
Oxf. 1894.

·5378 APPLICATIONS.

- 5378 **Davidge, H. T., and Hutchinson, R. W.** Technical electricity. Lond. 1907.
- 5378 **Maclean, M.** Modern electric practice. Lond. 1904-05.
- 5378 **Starke, H.** Experimentelle Electrizitätslehre.
Leip. 1910.
- 5378₁ **Fleming, J. A.** Propagation of electric currents in telephone and telegraph conductors. Lond. 1911.
- 5378₁ **Turpain, A.** Notions fondamentales sur la télégraphie.
Grenoble 1910.
- 5378₂ **Ruhmer, E.** Wireless telephony. Lond. 1908.
- 5378₂ **Turpain, A.** Téléphonie. Grenoble 1910.
- 5378₂ **Webb, H. L.** Development of the telephone in Europe.
Lond. [1910]
- 5378₄₂ **Dolezalek, F.** Theory of the lead accumulator.
New York 1904.
- 5378₅ **Watt, A.** Electro-plating. Lond. 1902.
- 53788 **Eichhorn, G.** Wireless telegraphy. Lond. 1906.
- 53788 **Fahie, J. J.** History of wireless telegraphy.
Edin. 1900.
- 53788 **Fleming, J. A.** Electric wave telegraphy and telephony.
Lond. 1910.
- 53788 — The Thermionic valve and its developments in radiotelegraphy and telephony. Lond. 1919.
- 53788 **Lodge, Sir O. J.** Signalling across space without wires.
Lond. [1900].
- 53788 **Ohlsberg, O.** Handbuch für Funkentelegraphisten.
Berl. 1911.
- 53788 **Poincaré, H.** Conférences sur la télégraphie sans fil.
Paris 1909.
- 53788 — Maxwell's theory and wireless telegraphy.
Lond. 1904.

·53 PHYSICS

- 53788 **Righi, A., and Dessau, B.** Die Telegraphie ohne Draht. Braunsch. 1903.
- 53788 **Sewall, C. H.** Wireless telegraphy. Lond. 1904.
- 53788 **Stanley, R.** Text-book of wireless telegraphy. 2 vols. Lond. 1919.
- 53788 **Valbreuze, R. de.** Notions générales sur la télégraphie sans fil. Paris 1907.
- 53788 **Zenneck, J.** Précis de télégraphie sans fil. Paris 1911.

·538 MAGNETISM.

- 5382 **Maurain, C.** Le Magnetisme du fer. [Paris 1892].
- 53826 **Du Bois, H.** The Magnetic circuit in theory and practice. Lond. 1896.

·5383 ELECTRO MAGNETISM.

- 5383 **Heaviside, O.** Electro-magnetic theory. 3 vols. Lond. 1893-1912.
- p ·5383 **Ørsted, H. C.** La Découverte de l'électromagnétisme faite en 1820 par J. C. Ørsted. Copenh. 1920.
- 5383 **Righi, A.** I Fenomeni elettro-atomici sotto l'azione del magnetismo. Bologna .
- 5383 **Schott, G. A.** Electro-magnetic radiation. Camb. 1912.
- 5383 **Walker, G. T.** Outlines of the theory of electro-magnetism. Camb. 1910.
- 53833 **Thompson, S. P.** The Electro-magnet. Lond. 1891.
- 53855 **Barbillion, L.** Production et emploi des courants alternatifs. [Paris] 1901.
- 53855 **Fleming, J. A.** The Alternate current transformer. 2 vols. Lond. 1890-91.
- 53855 **Maycock, W. P.** The Alternating-current circuit. Lond. 1897.
- 53855 **Russell, A.** Theory of alternating currents. 2 vols. Camb. 1904-06.
- 53855 **Tesla, N.** Experiments with alternate currents. New York 1892.

·53 PHYSICS

- 538552 **Thompson, S. P.** Polyphase electric currents. Lond. 1900.
- 53856 **Hertz, H.** Electric waves. Lond. 1893.
- 53856 **Macdonald, H. M.** Electric waves. Camb. 1902.
- 53856 **Poincaré, H.** Les Oscillations électriques. Paris 1894.
- 53856 ——— La Théorie de Maxwell et les oscillations Hertz-
iennes. [Paris] 1904.
- 53856 **Zenneck, J.** Les Oscillations électro-magnétiques.
2 vols. Paris 1905.
- 5386 **Cotton, A.** Le Phénomène de Zeeman. [Paris] 1899.
- 5386 **Voigt, W.** Magneto- und Elektro-optik. Leip. 1908.

·5387 TERRESTRIAL MAGNETISM.

- 5387 **Chree, C.** Studies in terrestrial magnetism. Lond. 1912.

·539 MOLECULAR PHYSICS.

- 539I **Alden, J. S.** Theory of the structure of matter.
Passaic, N.J. 1896.
- 539I **Comstock, D. F., and Troland, L. T.** The Nature of
matter and electricity: an outline of modern views.
New York 1919.
- 539I **Edser, E.** General physics for students: a text-book
on the fundamental properties of matter.
Lond. 1913.
- 539I **Kelvin, Sir W. Thomson, 1st baron.** Molecular dyna-
mics. Lond. 1901.
- 539I **Risteen, A. D.** Molecular theory of matter.
Boston [Mass.] 1896.
- 539I **Soddy, F.** Matter and energy. Lond. [1912].
- 539I **Stark, J.** Prinzipien der Atomdynamik. 2 vols.
Leip. 1910-11.
- 539I **Thomson, Sir J. J.** Corpuscular theory of matter.
Lond. 1907.
- 539I2 **Poincaré, H.** Théorie des tourbillons. Paris 1893.

·53 PHYSICS

·5393 ELASTICITY.

- 5393 **Cosserat, E., and F.** Théorie des corps déformables.
Paris 1909.
- 5393 **Love, A. E. H.** Treatise on the mathematical theory of
elasticity. Camb. 1920.
- 5393 **Mathieu, E.** Théorie de l'élasticité des corps solides.
2 pts. Paris 1890.
- In* ·5367 **Poincaré, H.** Leçons sur la théorie de l'élasticité.
Paris 1892.
- 5393 **Todhunter, I.** History of the theory of elasticity.
2 vols. Camb. 1886-93.

·54 CHEMISTRY.

[See also ·63 : 54 AGRICULTURAL CHEMISTRY.
·66 CHEMICAL TECHNOLOGY.]

- 5401 **Arrhenius, S.** Theories of chemistry. Lond. 1907.
- 5401 **Caven, R. M.** The Foundations of chemical theory.
Lond. 1920.
- 5401 **Dobbin, L. and Walker, J.** Chemical theory for be-
ginners. Lond. 1892.
- 5401 **Duhem, P.** Le Mixte et la combinaison chimique.
Paris 1902.
- 5401 **Masson, O.** Classification of the chemical elements.
Lond. [1896].
- 5401 **Meldrum, A. N.** Avogadro and Dalton, the standing
in chemistry of their hypotheses. Abd. 1904.
- 5401 **Rudorf, G.** Das Periodische System, seine Geschichte
und Bedeutung für die chemische Systematik.
Hamb. 1904.
- 54014 : 43 **Phillips, F. C.** Chemical German. Easton, Pa. 1915.
- 5402 **Attfield, J.** Chemistry, general, medical and pharma-
ceutical. Lond. 1903.
- 5402 **Fenton, H. J. H.** Outlines of chemistry. Vol. 1→
Camb. 1910→
- 5402 **Garçon, J.** Traité général des applications de la chimie.
Vol. 1→ Paris 1901→
- 5402 **Kahlenberg, L.** Outlines of chemistry.
New York 1909.
- 5402 **Lassar-Cohn, .** Introduction to scientific chemistry.
Lond. 1903.

·54 CHEMISTRY

- 5402 **Molinari, E.** General and industrial inorganic chemistry. Lond. 1912.
- 5402 ——— General and industrial organic chemistry. Lond. 1913.
- 5402 **Otto, F. J.** Graham-Otto's Ausführliches Lehrbuch der Chemie. 5 vols. Braunsch. 1878-98.
- 5402 **Roscoe, Sir H. E. and Schorlemmer, C.** Treatise on chemistry. Vol. 1→ Lond. 1905→
- 5402 ——— ——— Vol. 1→ Lond. 1911→
- 5403 **Fehling, H.** Neues Handwörterbuch der Chemie. 7 vols. Braunsch. 1874-1905.
- 5403 **Kingzett, C. T.** Popular chemical dictionary. Lond. 1920.
- Ref.* ·5403 **Ladenburg, A.** Handwörterbuch der Chemie. 13 vols. and index. Breslau 1882-96.
- Ref.* ·5403 **Watts, H.** Dictionary of chemistry. 4 vols. Lond. 1888-94.
- 5404 **Findlay, A.** Chemistry in the service of man. Lond. 1917.
- 5404 **Job, A.** La Méthode en chimie. Paris.
- 5404 **Philip, J. C.** Romance of modern chemistry. Lond. 1910.
- 5404 **Stewart, A. W.** Recent advances in physical and inorganic chemistry. Lond. 1919.

·5405 PERIODICALS.

- 5405 A.C. **American chemical journal.** Vols. 1-50. Baltimore [1880-1914].
- 5405 An.C. **Annales de chimie [et de physique,** 1824-1913]. [Ser. I]→ Paris 1789→
- 5405 C.A. **Chemical abstracts.** Vol. 14→ Easton, Pa. 1920→
- 5405 C.N. **Chemical news.** Vol. 1→ Lond. 1860→
- 5405 C.Z. **Chemisches Zentralblatt.** 1900→ Berl. 1900→
- 5405 E.Z. **Elektrochemische Zeitschrift.** Vols. 10-12. Berl. [1904-06].

54 CHEMISTRY

- *5405 H.C. **Helvetica chimica acta.** Vol. 1→ Basileae 1918→
- *5405 J.C. **Jahrbuch der Chemie.** Vols. 1-9.
Frankfurt a. M., Braunsch. 1892-1900.
- *5405 J.F. **Jahresbericht über die Fortschritte der Chemie.**
1847→ Giessen, Braunsch. 1849→
- *5405 J.PR. **Journal für praktische Chemie.** Vol. 1→
Leip. 1834→
- *5405 J.P. **Journal of physical chemistry.** Vol. 14→
Ithaca, N.Y. 1910→
- *5405 L.A. **Justus Liebig's Annalen der Chemie.** [*Begun as*
Annalen der Pharmacie.] Vol. 1→
Lemgo, Leip. 1832→
- *5405 R.R. **Radio review, The.** Vol. 1→ 1920→
- *5405 R. **Radium, Le.** Vol. 3→ Paris [1906]→
- *5405 R.A. **Review of American chemical research.** Vols. 3-12.
Easton, Pa. 1897-1906.
- *5405 T.A. **Tables annuelles de constantes, etc.** Vol. 1→
Paris 1912→
- *5405 Z.A. **Zeitschrift für anorganische (und allgemeine)**
Chemie. Vol. 1→ Hamb., Leip. 1892→
- *5405 Z.E. **Zeitschrift für Elektrochemie.** Vol. 1→
Halle [1895]→
- *5405 Z.P. **Zeitschrift für physikalische Chemie.** Vol. 1→
Leip. 1887→

5406 SOCIETIES.

- *5406 A. **Society of public analysts.** The Analyst. Vol.
17-20, 23→ Lond. [1892]→
- *5406 C.J. **Chemical society.** Journal. Vol. 1→ Lond. 1849→
- *5406 C.M. ———— **Memoirs and proc.** 3 vols. Lond. 1843-48.
- *5406 C.P. ———— **Proc.** Vol. 1→ Lond. 1885→
- *5406 C.R. ———— **Reports on progress of chemistry.** Vol. 1→
Lond. 1905→
- *5406 F.P. **Faraday society.** Proc. Vol. 1→ Lond. [1906]→
- *5406 F.T. ———— **Trans.** Vol. 1→ Lond. [1906]→
- *5406 I.C. **Institute of chemistry of Great Britain and Ire-**
land. Proc. 1902-19. Lond. 1902-19.

54 CHEMISTRY

- 5406 I.C. **Institute of chemistry of Great Britain and Ireland.** Journal and proc. 1920→ Lond. 1920→
- 5406 I.C. — Official chemical appointments. 1→
Lond. 1906→
- 5406 I.C.P. — History. By R. P. Pilcher. Lond. 1914.
- 5406(43) **Deutsche chemische Gesellschaft.** Berichte. Vol. 1→
Berl. 1868→
- 5406(43) V.L. **Verband der Laboratoriums-Vorstände an deutschen Hochschulen.** Berichte. Heft 1→
Leip. 1898→
- 063 **Akademie der Wissenschaften** [zu Wien]: Math.-naturw. Klasse. Sitzungsberichte. Abth. II. (Physik, Chemie, etc.). Vols. 43-96. Wien 1861-88.
- 5406(436) — — Abt. IIb. (Chemie). Vol. 97→
Wien 1889→
- 5406(44) **Société chimique de France.**
S.C. Société chimique de Paris. Bulletin. Sér. 3. Vols. 13-18. Paris 1895-97.
Société chimique de France. Bulletin. Sér. 4. Vol. 1→ Paris 1907→
- 5406(485) **Svenska vetenskaps-akademien, K.** Arkiv för kemi, mineralogi, och geologi. Vol. 1→
Stockh. 1904→
- 5406(7) C.J. **American chemical society.** Journal. Vol. 1→
New York, Easton, Pa. 1879→
- 5406(7) C.P. — Proc. 1876/78, 1899-1902, 1906→
New York, Easton, Pa. 1878→

5407 METHODS OF STUDY.

- 5407 **Freund, I.** The Experimental basis of chemistry.
Camb. 1920
- 5407 **Newth, G. S.** Chemical lecture experiments.
Lond. 1910.
- 5407 **Ostwald, W.** Conversations on chemistry. Pt. 1→
New York 1905→

54 CHEMISTRY

- 5407 **Smith, A., and Hall, E. H.** Teaching of chemistry
:5307 and physics in the secondary school. New York 1902.
- 54072(774) **Campbell, E. D.** History of the Chemical laboratory
of the University of Michigan, 1856-1916. Ann Arbor 1916.

5408 COLLECTIVE WORKS.

- 54081 **Baeyer, A. von.** Gesammelte Werke. 2 vols. Braunsch. 1905.
- 54081 **Japp, F. R.** [Scientific papers, 1879-1905].
- 54082 **ALEMBIC CLUB REPRINTS.** No. 1→ Edin. 1893→
- 54082 **Kahlbaum, G. W. A.** Monographien aus der Geschichte
der Chemie. Hrsg. G. W. A. K. Pt. 1→ Leip. 1897→
- 54082 **OSWALD'S KLASSIKER.** No. 1→ Leip. 1889→
- 540821 **MONOGRAPHS ON INORGANIC AND PHYSICAL CHEMISTRY.**
Mon. Lond. 1911→
1. **Soddy, F.** Chemistry of the radio-elements. 2 pts. 1911-14.
 - 1². — — — Pt. 1→ 1914→
 2. **Price, T. S.** Per-acids and their salts. 1912.
 - 3². **Findlay, A.** Osmotic pressure. 1919.
 4. **Desch, C. H.** Intermetallic compounds. 1914.
 5. **Dunstan, A. E. and Thole, F. B.** The Viscosity of liquids. 1914.
 6. **Turner, W. E. S.** Molecular association. 1915.
 7. **Le Bas, G.** Molecular volumes of liquid chemical compounds. 1915.
 8. **Spencer, J. F.** Metals of the rare earths. 1919.
 9. **Fry, H. S.** The Electronic conception of valence and the constitution of benzene. 1921.

5409 HISTORY.

- 5409 **Armitage, F. P.** History of chemistry. Lond. 1906.
- 5409 **Kopp, H.** Die Alchemie in älterer und neuerer Zeit.
2 vols. Heidelb. 1886.
- 5409 — Beiträge zur Geschichte der Chemie. 2 pts. Braunsch. 1869-75.

54 CHEMISTRY

- *5409 **Kopp, H.** Die Entwicklung der Chemie in der neueren Zeit. München, 1873.
- *5409 ——— Geschichte der Chemie. 4 vols. Braunsch. 1843-47.
- *5409 **Ladenburg, A.** Lectures on the history of the development of chemistry. Edin. 1900.
- *5409 **Lippmann, E. O. von.** Entstehung und Ausbreitung der Alchemie. Berl. 1919.
- *5409 **Lowry, T. M.** Historical introduction to chemistry. Lond. 1915.
- *5409 **Meyer, E. von.** History of chemistry. Lond. 1891.
- *5409 **Muir, M. M. P.** Story of alchemy. Lond. 1902.
- *5409 **Ramsay, Sir W.** Gases of atmosphere—history of their discovery. Lond. 1905.
- *5409 **Thorpe, Sir T. E.** Essays in historical chemistry. Lond. 1894.
- *5409 **Tilden, W. A.** Short history of scientific chemistry in our own times. Lond. 1899.
- *5409 **Wurtz, A.** History of chemical theory. Lond. 1869.
- *5409 : 54 **Royal Society.** International catalogue of scientific literature. Chemistry. [1901→] Lond. 1902→
- *54092 **[Guye, P. A.].** Notice biographique sur Humphry Davy. Genève 1907.
- *54092 **Harrow, B.** Eminent chemists. Lond. 1921.
- *54092 **Priestley, J.** Scientific correspondence. New York 1892.
- *54092 **Roscoe, Sir H. E.** John Dalton. Lond. 1895.
- *54092 ——— Life and experiences. Lond. 1906.
- *54092 **Shenstone, W. A.** Justus von Liebig, his life and work (1803-1873). Lond. 1895.
- *54092 **Thorpe, Sir T. E.** Humphry Davy. Lond. 1896.
- *54092 ——— Sir Henry Enfield Roscoe. Lond. 1916.
- *54092 **Tilden, Sir W. A.** Famous chemists. Lond. 1921.
- *54092 ——— Sir William Ramsay. Lond. 1918.

·54 CHEMISTRY

- 54092 **Vallery-Radot, R.** Life of Pasteur. 2 vols.
Lond. 1911.
- 54:51 **Mellor, J. W.** Higher mathematics for students of
chemistry and physics. Lond. 1905.
- 54:58 **Ritsema, I. C. and Sack, J.** Index phytochemicus.
Amst. 1905.

·541 PHYSICAL CHEMISTRY.

- 541 **Bigelow, S. L.** Theoretical and physical chemistry.
New York 1919.
- 541 **Cohen, E.** Physical chemistry. Lond. 1903.
- 541 **Deventer, C. M. van.** Physical chemistry for be-
ginners. Lond. [1898].
- 541 **Ewell, A. W.** Text-book of physical chemistry.
Lond. 1910.
- 541 **Findlay, A.** Physical chemistry and its applications.
Lond. 1905.
- 541 ——— Practical physical chemistry. Lond. 1914.
- 541 **Freund, I.** Study of chemical composition.
Camb. 1904.
- 541 **Getman, F. H.** Outlines of theoretical chemistry.
New York 1918.
- 541 **Gray, F. W.** Manual of practical physical chemistry.
Lond. 1914.
- 541 **Hoff, J. H. van't.** Lectures on theoretical and physical
chemistry. 3 vols. Lond. [1898-99].
- 541 ——— Ozeanische Salzablagerungen, etc. Leip. 1912
- 541 ——— Physical chemistry in the service of the sciences
Chicago 1903.
- 541 **Jones, H. C.** Elements of physical chemistry.
New York 1903.
- 541 **Küster, F. W. and Thiel, A.** Lehrbuch der allge-
meinen, physikalischen und theoretischen Chemie.
Vol. 1→ Heidelb. 1913→
- 541 **Lewis, W. C. M.** System of physical chemistry. 3
vols. Lond. 1918-19.

·54 CHEMISTRY

- 54I **Ley, H.** Die Beziehungen zwischen Farbe und Konstitution bei organischen Verbindungen. Leip. 1911.
- 54I **Nernst, W.** Theoretical chemistry. Lond. 1916.
- 54I **Ostwald, W.** Grundriss der allgemeinen Chemie. Leip. 1899.
- 54I ——— Lehrbuch der allgemeinen Chemie. Vol. 1→ Leip. 1910→
- 54I ——— Solutions. Lond. 1891.
- 54I **Philip, 'J. C.** Physical chemistry. Lond. 1913.
- 54I **Prideaux, E. B. R.** Theory and use of indicators. Lond. 1917.
- 54I **Pring, J. N.** Laboratory exercises in physical chemistry. Manch. 1911.
- 54I **Roth, W. A.** Exercises in physical chemistry. Lond. 1909.
- 54I **Traube, J.** Physico-chemical methods. Philad. 1898.
- 54I **Walker, J.** Introduction to physical chemistry. Lond. 1899.
- 54I **Wurtz, A.** Introduction à l'étude de la chimie. Paris 1885.
- 54IO4 **Richards, T. W., and Forbes, G. S.** Energy changes involved in the dilution of zinc and cadmium amalgams. Wash. 1906.

·54III THERMO-CHEMISTRY.

- 54III **Berthelot, M.** Traité pratique de calorimétrie chimique. Paris [1893].
- 54III **Duhem, P.** Thermodynamics and chemistry. New York 1903.
- 54III **Haber, F.** Thermodynamics of technical gas-reactions. Lond. 1908.
- 54III **Kremann, R.** Ueber die Anwendung der thermischen Analyse. Stuttg. 1909.
- 54III **Laar, J. J. van.** Sechs Vorträge über das thermodynamische Potential. Braunsch. 1906.
- 54III ——— Die Thermodynamik in der Chemie. Amst. 1893.

·54 CHEMISTRY.

- 54III **Muir, M. M. P., and Wilson, D. M.** Elements of thermal chemistry. Lond. 1885.
- 54III **Nernst, W.** Experimental and theoretical applications of thermodynamics to chemistry. New York 1907.
- 54III **Thomsen, J.** Thermochemistry. Lond. 1908.
- 54III **Waals, J. D. van der.** Lehrbuch der Thermodynamik. Bearbeitet von P. Kohnstamm. 2 vols. Leip. [1908]-12.

·54II2 MECHANICAL CHEMISTRY.

- 54II2 **Clibbens, D. A.** The Principles of the phase theory. Lond. 1920.
- 54II2 **Findlay, A.** Phase rule and its applications. With Introd. to study of physical chemistry by Sir W. Ramsay. Lond. 1904.
- 54II2 **Herz, W.** Der Verteilungssatz. Stuttg. 1909.
- 54II2 **Hoff, J. H. van't, and Cohen, E.** Studies in chemical dynamics. Amst. 1896.
- 54II2 **Mellor, J. W.** Chemical statics and dynamics. Lond. 1904.
- 54II2 **Michaelis, L.** The Dynamics of surfaces. Lond. 1914.
- 54II2 **Rideal, E. K., and Taylor, H. S.** Catalysis in theory and practice. Lond. 1919.
- 54II2 **Willows, R. S., and Hatschek, E.** Surface tension and surface energy. Lond. 1919.
- 54II2 **Sabatier, P.** La Catalyse en chimie organique. Paris 1913.
- 547

·54II3 ELECTRO-CHEMISTRY.

- 54II3 **Allmand, A. J.** Principles of applied electrochemistry. Lond. 1912.
- 54II3 **Arrhenius, S.** Text-book of electrochemistry. Lond. 1902.
- 54II3 **Carrara, G.** Elektrochemie der nichtwässrigen Lösungen. Stuttg. 1908.
- 54II3 **Jahn, H.** Grundriss der Elektrochemie. Wien 1895.

54 CHEMISTRY

- 54113 **Jones, H. C.** Electrical conductivity of salts and organic acids. Wash. 1912.
- 54113 **Jones, H. C., and others.** Conductivities and viscosities in pure and in mixed solvents. Wash. 1915.
- 54113 ——— Conductivity and viscosity in mixed solvents. Wash. 1907.
- 54113 **Laar, J. J. van.** Lehrbuch der theoretischen Elektrochemie auf thermodynamischer Grundlage. Leip. 1907.
- 54113 **Le Blanc, M.** Lehrbuch der Elektrochemie. Leip. 1903.
- 54113 **Lehfeldt, R. A.** Electro-chemistry. Pt. 1→ Lond. 1904→
- 54113 **Lorenz, R., and Kaufler, F.** Elektrochemie geschmolzener Salze. Leip. 1909.
- 54113 **Lüpke, R.** Grundzüge der Elektrochemie. Berl. 1903.
- 54113 **Minet, A.** L'Electro-chimie. Paris [1898].
- 54113 **Ostwald, W.** Elektrochemie. Leip. 1896.
- 54113 **Perkin, F. M.** Methods of electro-chemistry. Lond. 1905.
- 54113 **Richards, T. W.** Electrochemical investigation of liquid amalgams of thallium, etc. Wash. 1909.
- 54113 **Smith, E. F.** Electro-analysis. Lond. 1912.
- 5411306(73) **American electrochemical society.** Trans. Vol. 14→ South Bethlehem, Pa. 1908→

54114 COLLOID CHEMISTRY.

- 54114 **Bancroft, W. D.** Applied colloid chemistry. New York 1921.
- 54114 **Freundlich, H.** Kapillarchemie: eine Darstellung der Chemie der Kolloide. Leip. 1909.
- 54114 **Hatschek, E.** Introduction to the physics and chemistry of colloids. Lond. 1916.
- 54114 ——— Laboratory manual of elementary colloid chemistry. Lond. 1920.
- 54114 **Ostwald, W.** Grundriss der Kolloidchemie. Dresden 1909.

54 CHEMISTRY

- 54114 **Svedberg, T.** Die Methoden zur Herstellung kolloider Lösungen anorganischer Stoffe. Dresden 1909.
- 54114 **Taylor, W. W.** Chemistry of colloids and some technical applications. Lond. 1915.
- 54114 **Zsigmondy, R.** Colloids and the ultramicroscope. New York 1909.
- 5411405 **Kolloid-Zeitschrift.**
 K. Zeitschrift für Chemie und Industrie der Kolloide. Vols. 1-12. Dresden 1906-13.
 Kolloid-Zeitschrift. Vol. 13→ Dresden 1913→
- 5411405 **Kolloidchemische Beihefte.** (Ergänzungshefte zur K.B. Kolloid-Zeitschrift.) Vol. 12→ Dresden 1920→
- 54114:61 **Bechhold, H.** Colloids in biology and medicine. New York 1919.
- 54114:61 — Kolloide in Biologie und Medizin. Dresden 1920.
- 54114:61 **Searle, A. B.** Colloids in health and disease. Lond. 1920.

5412 ATOMICS.

- 5412 **Baxter, G. P.** Atomic weights of cadmium, etc. Wash. 1910.
- 5412 **Friend, J. N.** Theory of valency. Lond. 1909.
- 5412 **Kuenen, J. P.** Zustandsgleichung der Gase und Flüssigkeiten und die Kontinuitätstheorie. Braunsch. 1907.
- f. 5412 **Morley, E. W.** Densities of oxygen and hydrogen and ratio of their atomic weights. Wash. 1895.
- 5412 **Perrin, J.** Atoms. Lond. 1916.
- 5412 **Richards, T. W.** Compressibilities of elements. Wash. 1907.
- 5412 — Further researches on atomic weights. Wash. 1907.
- 5412 **Richards, T. W., and Wells, R. C.** Revision of the atomic weights of sodium and chlorine. Wash. 1905.
- 5412 **Richards, T. W., and Willard, H. H.** Determinations of atomic weights. Wash. 1910.

54 CHEMISTRY

- 5412 **Roscoe, Sir H. E., and Harden, A.** New view of origin of Dalton's atomic theory. Lond. 1896.
- 5412 **Smith, E. F., and Van Haagen, W. K.** Atomic weights of boron and fluorine. Wash. 1918.
- f. 5412 **Stas, J. S.** Nouvelles recherches sur les lois des proportions chimiques, sur les poids atomiques et leurs rapports mutuels. [1865.]
- 5412 **Wurtz, A.** The Atomic theory. Lond. 1880.
- 5412 **Young, S.** Stoichiometry. Lond. 1908.

54121 RADIOACTIVITY.

- 54121 **Barus, C.** Condensation of vapor as induced by nuclei and ions. Wash. 1907.
- 54121 — Nucleation of the uncontaminated atmosphere. Wash. 1906.
- 54121 **Battelli, A., and others.** La Radioactivité. Genève [1910].
- 54121 **Blondlot, R.** "N" rays. Lond. 1905.
- 54121 **Bragg, W. H.** Studies in radioactivity. Lond. 1912.
- 54121 **Congrès international pour l'étude de la radiologie,** Liège, 1905. Comptes rendus. Paris 1906.
- 54121 **Crowther, J. A.** Ions, electrons, and ionizing radiations. Lond. 1919.
- 54121 **Curie, M. S., Madame.** Recherches sur les substances radioactives. Paris 1904.
- 54121 — Traité de radioactivité. 2 vols. Paris 1910.
- 54121 **D'Albe, E. E. F.** The Electron theory. Lond. 1909.
- 54121 **Hofmann, K.** Die Radioactiven Stoffe. Leip. 1903.
- 54121 **Kaye, G. W. C.** X rays. Lond. 1914.
- 54121 **Laborde, A.** Méthodes de mesure employées en radio-activité. Paris [1911].
- 54121 **Lenard, P.** Über Kathodenstrahlen. Leip. 1906.
- 54121 **Makower, W., and Geiger, H.** Practical measurements in radio-activity. Lond. 1912.

54 CHEMISTRY

- 54121 **Righi, A.** *La Materia radiante e i raggi magnetici.* Bologna 1910.
- 54121 ——— *Modern theory of physical phenomena: radio-activity, ions, electrons.* New York 1904.
- 54121 **Rutherford, E.** *Radioactive substances and their radiations.* Camb. 1913.
- 54121 ——— *Radioactive transformations.* New York 1906.
- 54121 ——— *Radio-activity.* Camb. 1904.
- 54121 **Soddy, F.** *Interpretation of radium.* Lond. 1920.
- 54121 ——— *Radio-activity.* Lond. 1904.
- 54121 **Strutt, R. J.** *The Becquerel rays and the properties of radium.* Lond. 1904.
- 54121 **Villard, P.** *Les Rayons cathodiques.* [Paris 1900.]
- 54121 **Wendell, L.** *The Systematic development of X-ray plates and films.* Lond. 1920.
- : 77

5413 AFFINITY.

- 5413 **Guldberg, C. M., and Waage, P.** *Études sur les affinités chimiques.* Christiania 1867.
- 5413 **Lundén, H.** *Affinitätsmessungen an schwachen Säuren und Basen.* Stuttg. 1908.
- 5413 **Sackur, O.** *Die Chemische Affinität und ihre Messung.* Braunsch. 1808.

5416 STEREO-CHEMISTRY.

- 5416 **Auwers, K.** *Die Entwicklung der Stereochemie.* Heidelb. 1890.
- 5416 **Bischoff, C. A.** *Handbuch der Stereochemie.* Hrsg. C. A. B. Frankfurt a. M. 1894.
- 5416 **Freundler, P.** *La Stéréochimie.* Paris [1899].
- 5416 **Hantzsch, A.** *Grundriss der Stereochemie.* Breslau 1893.
- 5416 **Hoff, J. H. van't.** *Chemistry in space.* Oxf. 1891.
- 5416 ——— *Die Lagerung der Atome im Raume.* Braunsch. 1908.
- 5416 **Meyerhoffer, W.** *Gleichgewichte der Stereoisomeren.* Leip. 1906.

54 CHEMISTRY

- 5416 **Ryn, W. van.** Die Stereochemie des Stickstoffs.
Zürich 1897.
- 5416 **Stewart, A. W.** Stereochemistry. Lond. 1907.
- 5416 **Wedekind, E.** Die Entwicklung der Stereochemie des
fünfwertigen Stickstoffs im letzten Jahrzehnt.
Stuttg. 1909.
- 5417 **Meyer, J.** Die Allotropie der chemischen Elemente.
Stuttg. 1910.

5418 SOLUBILITY.

- 5418 **Arrhenius, S.** Theories of solutions.
New Haven 1912.
- 5418 **Davis, P. B.** Studies on solution in its relation to light
absorption, conductivity, etc. Compiled by P. B.
Davis. Wash. 1918.
- 5418 **Jones, H. C.** Freezing-point lowering of solutions of
certain electrolytes in water, etc. Wash. 1913.
- 5418 **Jones, H. C., and Anderson, J. A.** Absorption spectra
of solutions of certain salts of cobalt, etc.
Wash. 1909.
- 5418 **Jones, H. C., and Guy, J. S.** Absorption spectra of
solutions as affected by temperature. Wash. 1913.
- 5418 **Jones, H. C., and Strong, W. W.** Absorption spectra
of solutions of rare salts. Wash. 1911.
- 5418 — Study of the absorption spectra. Wash. 1910.
- 5418 **Jones, H. C., and others.** Absorption spectra of solu-
tions as studied by means of the radiomicrometer.
Wash. 1915.
- 5418 — Hydrates in aqueous solution. Wash. 1907.
- 5418 **Morse, H. N.** Osmotic pressure of aqueous solutions.
Wash. 1914.
- 5418 **Walden, P.** Die Lösungstheorien in ihrer geschicht-
lichen Aufeinanderfolge. Stuttg. 1910.

5419 TABLES.

- f. 5419 **Carnelley, T.** Melting and boiling point tables. 2 vols.
Lond. 1885-87.

·54 CHEMISTRY

·5419 **Evans, J. Castell-.** Physico-chemical tables. Vol. 1→
Lond. 1902→

·5419 **Landolt, H., and Börnstein, R.** Physikalisch-chemi-
sche Tabellen. Berl. 1905.

·542 PRACTICAL CHEMISTRY.

·542 **Newth, G. S.** Elementary practical chemistry.
Lond. 1904.

·5424 **Young, S.** Fractional distillation. Lond. 1903.

·5427 **Travers, M. W.** Experimental study of gases.
Lond. 1901.

·54274 **Barus, C.** Diffusion of gases through liquids.
Wash. 1913.

f. ·54279 **Claude, G.** Liquid air, oxygen, nitrogen. Lond. 1913.

·5428 **Moissan, H.** Le Four électrique. Paris 1897.

·5428 **Thomson, Sir J. J.** Rays of positive electricity and
their application to chemical analyses. Lond. 1913.

·543 CHEMICAL ANALYSIS.

·543 **Chesneau, M. G.** Methods of analytical chemistry.
New York 1910.

·543 **Crookes, Sir W.** Select methods in chemical analysis.
Lond. 1905.

·543 **Hempel, W.** Methods of gas analysis. New York 1902.

·543 **Krauch, C.** Testing of chemical reagents for purity.
Lond. [1902].

·543 **Menschutkin, H.** Analytical chemistry. Lond. 1903.

·543 **Merck, E.** Prüfung der chemischen Reagenzien auf
Reinheit. Darmstadt 1912.

·543 **Muter, J.** Manual of analytical chemistry.
Lond. 1903.

·543 **Plattner, C. F.** Manual of qualitative and quantitative
analysis with the blowpipe. New York 1902.

·543 **Treadwell, F. P.** Analytical chemistry. 2 vols.
New York 1905.

·543 **Wright, A. C.** Analysis of oils and allied substances.
Lond. 1903.

54 CHEMISTRY

- 54301 **Ostwald, W.** Scientific foundations of analytical chemistry. Lond. 1900.
- 543:612 **Hoppe-Seyler, F.** Handbuch der physiologisch- und pathologisch-chemischen Analyse. Bearbeitet von H. Thierfelder. Berl. 1903.
- 5431 **König, J.** Chemie der menschlichen Nahrungs- und Genussmittel. Vol. 1→. Berl. 1882→
- 5431 **Blyth, A. W.** Foods, their composition and analysis. Lond. 1896.
- :6132
- 5431 **Robinson, H. M., and Cribb, C.** Law and chemistry of food and drugs. Lond. 1895.
- :6132
- 5433 **Frankland, E.** Water analysis for sanitary purposes. Lond. 1890.
- 5433 **Mason, W. P.** Examination of water. New York 1903.
- 5433 **Wanklyn, J. A., and Chapman, E. T.** Water analysis. Lond. 1889.
- 5433(794) **Mitchell, J. P.** Normal constituents of potable water of San Francisco peninsula. Stanford Univ. 1910.
- 5436 **Behrens, H.** Manual of microchemical analysis. Lond. 1894.
- 5436 **Washington, H. S.** Manual of the chemical analysis of rocks. New York 1910.
- 5437 **Wanklyn, J. A., and Cooper, W. J.** Air analysis. Lond. 1890.

544 QUALITATIVE ANALYSIS.

5446 SPECTRUM ANALYSIS.

- 5446 **Baly, E. C. C.** Spectroscopy. Lond. 1905.
- 5446 **Coblentz, W. W.** Investigations of infra-red spectra. Pt. 1→ Wash. 1905→
- 5446 **Kayser, H.** Handbuch der Spectroscopie. Vol. 1→ Leip. 1900→
- 5446 **Néculcéa, E.** Spectres ultraviolets d'étincelles oscillantes. Paris 1908.
- 5446 **Roscoe, Sir H. E.** Spectrum analysis. Lond. 1885.

·54 CHEMISTRY

- 5446 **Uhler, H. S. and Wood, R. W.** Atlas of absorption spectra. Wash. 1907.
- 5446 **Watts, W. M.** Index of spectra. Lond. 1872.
- 5446 ——— (Appendix B→) Manch. 1889→
- 5446 ——— Introduction to the study of spectrum analysis. Lond. 1904.

·545 QUANTITATIVE ANALYSIS.

- 545 **Cumming, A. C., and Kay, S. A.** Text-book of quantitative chemical analysis. Lond. 1919.
- 545 **Stillman, T. B.** Engineering chemistry. Easton, Pa. 1910.
- 545 : 5326 **Goppelsroeder, F.** Neue capillar- und capillaranalytische Untersuchungen. Basel 1907.
- 5453 **Clark, W. M.** The Determination of hydrogen ions. Baltimore 1920.
- 5453 **Classen, A.** Quantitative chemical analysis by electrolysis. New York 1903.
- 5453 **Neumann, B.** Theory and practice of electrolytic methods of analysis. Lond. 1898.
- 5455 **Cohn, A. I.** Indicators and test-papers. New York 1902.
- 5455 **Mohr, F.** Lehrbuch der chemisch-analytischen Titrimethode. Hrsg. A. Classen. Braunsch. 1896.
- 5455 **Russell, J. B., and Bell, A. H.** Notes on volumetric analysis. Lond. 1905.
- 5455 **Sutton, F.** Systematic handbook of volumetric analysis. Lond. 1900.

·546 INORGANIC CHEMISTRY.

- 546 **Arendt, R.** Technik der anorganischen Experimentalchemie. Hamb. 1910.
- 546 **Browning, P. E.** Introduction to the rarer elements. New York 1917.
- 546 **Lengfield, F.** Inorganic chemical preparations. New York 1899.

54 CHEMISTRY

- 54602 **Abegg, R.** Handbuch der anorganischen Chemie.
Vol. 1→ Leip. 1905→
- 54602 **Caven, R. M., and Lander, G. D.** Systematic in-
organic chemistry. Lond. 1906.
- 54602 **Dammer, O.** Handbuch der anorganischen Chemie.
4 vols. Stuttg. 1892-1903.
- 54602 **Gmelin, L., and Kraut, K.** Handbuch der anorgan-
ischen Chemie. Vol. 1→ Heidelb. 1906→
- 54602 **Lewes, V. B.** Inorganic chemistry. Lond. [1903].
- 54602 **Mellor, J. W.** Modern inorganic chemistry.
Lond. 1920.
- 54602 **Mendeléeff, D.** Principles of chemistry. 2 vols.
Lond. 1891.
- 54602 **Newth, G. S.** Text-book of inorganic chemistry.
Lond. 1905.
- 54602 **Ostwald, W.** Principles of inorganic chemistry.
Lond. 1902.
- 54602 **Partington, J. R.** Text-book of inorganic chemistry
for university students. Lond. 1921.
- 54602 **Remsen, I.** Inorganic chemistry. Lond. 1889.
- 54602 **Richter, V. von.** Text-book of inorganic chemistry.
Philad. 1903.
- 54602 **Senter, G.** Text-book of inorganic chemistry.
Lond. [1911].
- 54602 **Smith, A.** Introduction to general inorganic chemistry.
New York 1906.
- 54603 **Hoffmann, M. K.** Lexikon der anorganischen Verbin-
dungen. [*German, English, etc.*] Vol. 1→
Leip. 1910→
- 54604 **Levy, S. I.** The Rare earths, etc. Lond. 1915.
- 54604 **Smith, J. H.** Recent discoveries in inorganic chem-
istry. Camb. 1919.
- 54604 **Werner, A.** New ideas on inorganic chemistry.
Lond. 1911.

54 CHEMISTRY

5461 NON-METALLIC ELEMENTS.

- 54616 **Moissan, H.** Le Fluor et ses composés. Paris 1900.
 54617 **Norton, T. H.** Utilization of atmospheric nitrogen.
 Wash. 1912.
 54626 **Le Chatelier, H.** Leçons sur le carbone. Paris 1908.

5463 METALLIC ELEMENTS.

- 5463 **Desch, C. H.** Metallography. Lond. 1910.
 5463 **Jänecke, E.** Summary of alloys. [*n. p. or d.*]
 54645 **Parsons, C. L.** Chemistry and literature of beryllium.
 Lond. [1909].

547 ORGANIC CHEMISTRY.

- 547 **Elbs, K.** Die Synthetischen Darstellungsmethoden der
 Kohlenstoff-Verbindungen. 2 vols. Leip. 1889-91.
 547 **Gattermann, L.** Practical methods of organic chem-
 istry. New York 1903.
 547 **Lachman, A.** Spirit of organic chemistry, an introduc-
 tion to the current literature. New York 1904.
 547 **Meldola, R.** Chemical synthesis of vital products and
 the inter-relations between organic compounds.
 Vol. 1→ Lond. 1904→
Ref. 54702 **Beilstein, F.** Handbuch der organischen Chemie.
 4 vols. Hamb. 1893-99.
 ——— Suppl. 5 vols. Hamb. 1901-06.
 54702 **Bunge, G. von.** Text-book of organic chemistry.
 Lond. 1907.
 54702 **Cohen, J. B.** Organic chemistry for advanced students.
 3 pts. Lond. 1920.
 54702 **Freundler, P., and Marquis, R.** Manuel de travaux
 pratiques de chimie organique. Paris 1908.
 54702 **Haskins, H. D., and Macleod, J. J. R.** Organic chem-
 istry. New York 1907.
 54702 **Keane, C. A.** Modern organic chemistry. Lond. 1909.
 54702 **Lassar-Cohn, .** Laboratory manual of organic chem-
 istry. Lond. 1896.

54 CHEMISTRY

- 54702 **Noyes, W. A.** Text-book of organic chemistry.
New York 1903.
- 54702 **Perkin, W. H., and Kipping, F. S.** Organic chemistry.
2 vols. Lond. 1902-04.
- 54702 **Richter, V. von.** Organic chemistry. 2 vols. Ed. R.
Anschütz. Lond. 1902-03.
- 54702 **Weyl, T.** Die Methoden der organischen Chemie.
Hrsg. von T. W. 2 vols. Leip. 1909-11.
- Ref. 54703 **Deutsche chemische Gesellschaft.** Literatur-Regis-
ter der organischen Chemie, geordnet nach M. M.
Richters Formel system. Hrsg. von der Deutschen
chemischen Gesellschaft. Vol. 1→
Braunsch. 1913→
- Ref. 54703 **Richter, M. M.** Lexikon der Kohlenstoff-Verbin-
dungen. 4 vols. Hamb. 1910-12.
- 54704 **Henrich, F.** Neuere theoretische Anschauungen auf
dem Gebiete der organischen Chemie.
Braunsch. 1908.
- 54704 **Japp, F. R.** Researches in organic chemistry. By
F. R. Japp, W. Maitland, J. Knox, and J. Wood.
Abd. 1904.
- 54704 **Stewart, A. W.** Recent advances in organic chem-
istry. Lond. 1918.
- 54707 **Fischer, E.** Exercises in the preparation of organic
compounds. Glasg. 1889.
- 54709 **Schorlemmer, C.** Rise and development of organic
chemistry. Lond. 1894.
- 547 **Moser, A.** Die Elektrolytischen Prozesse der organis-
:54113 chen Chemie. Halle a. S. 1910.
- 547:57 **Fränkel, S.** Descriptive Biochemie. Wiesbaden 1907.
- 547:57 **Gautier, A.** Leçons de chimie biologique. Publiées
avec la collaboration de M. Arthus. Paris 1897.
- 547:57 **Schryver, S. B.** Introduction to the study of biological
chemistry. Lond.
- 547¹ **Moissan, H.** Série du cyanogène. Paris 1882.
- 547² **Heusler, F.** Chemistry of the terpenes Lond. 1902.

54 CHEMISTRY

- 54723 **Lewes, V. B.** Acetylene. Westm. 1900.
- 54744 **Grossmann, J.** Ammonia and its compounds.
Lond. 1906.
- 54744 **Maxted, E. B.** Ammonia and the nitrides.
Lond. 1921.
- 54752 **Orloff, J. E.** Formaldehyd. Leip. 1909.
- 54778 **Robertson, T. B.** Physical chemistry of the proteins.
New York 1918.
- 547786 **Fischer, E.** Untersuchungen über Aminosäuren, Poly-
peptide und Proteine, 1899-1906. Berl. 1906.
- 547786 **Mann, G.** Chemistry of the proteids. Based on O.
Cohnheim's "Chemie der Eiweisskörper".
Lond. 1906.
- 547786 **Scherer, R.** Casein, its preparation and technical
utilisation. Lond. 1911.
- 547786 **Schryver, S. B.** Chemistry of the albumens.
Lond. 1906.
- 5478 **Sidgwick, N. V.** Organic chemistry of nitrogen.
Oxf. 1910.
- 54793 **Wren, H.** Organometallic compounds of zinc and
magnesium. Lond. 1913.

·548 CRYSTALLOGRAPHY.

- 548 **Fock, A.** Introduction to chemical crystallography.
Oxf. 1895.
- 548 **Schenck, R.** Kristallinische Flüssigkeiten und flüssige
Kristalle. Leip. 1905.
- 548 **Smiles, S.** Chemical constitution and some physical
properties. Lond. 1910.
- 548 **Tutton, A. E. H.** Crystalline structure and chemical
constitution. Lond. 1910.
- 548 **Vorländer, D.** Kristallinisch-flüssige Substanzen.
Stuttg. 1908.
- 54802 **Groth, P.** Optical properties of crystals.
New York 1910.
- 54802 ——— Physikalische Krystallographie. Leip. 1885.
- 54802 **Lewis, W. J.** Treatise on crystallography.
Camb. 1899.
- 54802 **Maskelyne, N. Story-.** Crystallography. Oxf. 1895.
- 54802 **Tutton, A. E. H.** Crystallography and practical crystal
measurement. Lond. 1911.
- 54802 **Williams, G. H.** Elements of crystallography.
Lond. 1890.
- 54803 **Goldschmidt, V.** Index der Krystallformen der Miner-
alien. 3 vols. Berl. 1886-91.
- 548082 **Sella, Q.** Abhandlungen zur Krystallographie.
Ost 1 Leip. 1906.
- f. 548084 **Goldschmidt, V.** Atlas der Krystallformen. Vol. 1→
Heidelb. 1913→
- 5485 **Bragg, W. H., and W. L.** X-rays and crystal struc-
ture. Lond. 1915.
- 5488 **Liebisch, T.** Grundriss der physikalischen Krystallo-
graphie. Leip. 1896.
- 5489 **Buchwald, E.** Einführung in die Kristalloptik.
Berl. 1920.

·549 MINERALOGY.

- 549 **Brauns, R.** The Mineral kingdom. Esslingen 1912.
- 54902 **Dana, E. S.** First appendix to Dana's System of mineralogy. New York 1899.
- 54902 **Dana, J. D.** System of mineralogy. Ed. E. S. Dana. New York 1896.
- f.* 54902 **Félix, J.** La Vie des minéraux. [Vol. 1—Atlas.] 1910.
- 54902 **Hintze, C.** Handbuch der Mineralogie. Vol. 1→ Leip. 1897→
- 54902 **Kraus, E. H., and Hunt, W. F.** Mineralogy. New York, 1920.
- f.* 54902 **Leteur, F.** Traité élémentaire de minéralogie pratique. Paris [1907].
- 54902 **Miers, H. A.** Mineralogy. Lond. 1902.
- 54902 **Moses, A. J., and Parsons, C. L.** Elements of mineralogy, etc. New York 1916.
- 54902 **Naumann, C. F.** Elemente der Mineralogie. Ergänzte Auflage von F. Zirkel. Leip. 1901.
- Λ **Nicol, J.** Elements of mineralogy. Edin. 1873.
- 54902 ——— Manual of mineralogy. Edin. 1873.
- 54902 **Niggli, P.** Lehrbuch der Mineralogie. Berl. 1920.
- 54902 **Phillips, A. H.** Mineralogy. New York 1912.
- 54902 **Sommerfeldt, E.** Praktikum der experimentellen Mineralogie. Berl. 1911.
- 54902 **Rudler, F. W.** Handbook to a collection of minerals of British Islands. Lond. 1905.
- (42)
- 54903 **Chester, A. H.** Dictionary of names of minerals. New York 1896.

549 MINERALOGY

- 54904 **Brush, G. J.** Manual of determinative mineralogy.
Enlarged by S. L. Penfield. New York 1896.
- 54904 **Davy, W. M., and Farnham, C. M.** Microscopic ex-
amination of the ore minerals. New York 1920.
- 54904 **Day, A. L.** Isomorphism and thermal properties of
the feldspars. Wash. 1905.
- 54904 **Goesel, J. G.** Minerals and metals. New York 1906.
- 54904 **Iddings, J. P.** Rock minerals. New York 1906.
- 54904 **Johannsen, A.** Key for the determination of rock-
forming minerals. New York 1908.
- 54904 **Louis, H.** The Dressing of minerals. Lond. 1909.
- 54904 **Merrill, G. P.** Non-metallic minerals. New York 1905.
- 54904 **Moor, C. G.** The Recognition of minerals. Lond.
- 54904 **Schroeder van der Kolk, J. L. C.** Tabellen zur Bes-
timmung der Mineralien. Wiesbaden 1900.
- 54904 **Tolman, C. F., and Rogers, A. F.** Magmatic sulfid
ores. Stanford Univ. 1916.

54905 PERIODICALS.

- 54905 C. **Centralblatt für Mineralogie, Geologie und Palae-
ontologie.** Vol. 1→ Stuttg. 1900→
- 54905 J.M. **Neues Jahrbuch für Mineralogie, Geologie und
Palaeontologie.** 1861→ Stuttg. 1861→
- 54905 J.M. — Beilage-Band. 1→ Stuttg. 1881→
- 54906 M. **Mineralogical Society.** Mineralogical magazine and
journal. Vol. 1→ Lond. 1877→
- 54906:549 **Royal Society.** International catalogue of scientific
literature. Mineralogy. [1901]→ Lond. 1903→

549(·) REGIONAL MINERALOGY.

- 549 (∞) **Spencer, L. J.** The World's minerals. Lond. [191 .].
- 549 (∞) **Stokes, R. S. G.** Mines and minerals of the British
Empire. Lond. 1908.
- 549 (41) **Heddle, M. F.** Mineralogy of Scotland. Vol. 1→
Edin. 1901→

- '549 (44) **Lacroix, A.** Minéralogie de la France et de ses colonies. 2 vols. Paris 1893-97.
- '549(51) **Wang, Chung Yu.** Bibliography of mineral wealth, etc., of China. Lond. 1912.
- '549 (67) **Moore, C. W., and Wiimer, W. H. C.** Minerals of S. Africa. Johannesburg 1893.
- '549(71) **Canada—Munition resources commission.** Final report of the work of the commission, November, 1915, to March, 1919. Toronto 1920.
- '549 (8116) **Calvert, A. F.** Mineral resources of Minas Geraes, Brazil. Lond. 1915.

·55 GEOLOGY.

- 5501 **Hutton, C. J.** Theory of the earth. 3 vols.
Edin., Lond. 1795-1899.
- 5501 **Launay, L. de.** La Science géologique. Paris 1905.
- 5501 **Lyell, Sir C.** Principles of geology. 2 vols.
Lond. 1875.
- 5501 **Playfair, J.** Illustrations of the Huttonian theory of
the earth. Edin. 1802.
- 5501 **Ratzel, F.** Die Erde und das Leben. 2 vols.
Leip. 1901-02.
- 5501 **Robin, A.** La Terre. Paris
- 5501 **Walther, J.** Geschichte der Erde und des Lebens.
Leip. 1908.
- 5502 **Chamberlin, T. C., and Salisbury, R. D.** Geology.
3 vols. Lond. 1909.
- 5502 **Geikie, Sir A.** Class-book of geology. Lond. 1886.
- 5502 ——— Text-book of geology. 2 vols. Lond. 1903.
- 5502 **Geikie, J.** Outlines of geology. Lond. 1886.
- 5502 **Guède, H.** La Géologie. Paris
- 5502 **Haug, É.** Traité de géologie. 2 vols. Paris 1907-11.
- 5502 **Lake, P., and Rastall, R. H.** Textbook of geology.
Lond. 1920.
- 5502 **Lapworth, C.** Intermediate text-book of geology.
Edin. 1899.
- 5502 **Neumayr, M.** Erdgeschichte. 2 vols. Leip. 1887.
- 5502 **Nicol, J.** Catechism of geology. Edin. 1855.
- 5502 **Prestwich, J.** Geology, chemical, physical, and strati-
graphical. 2 vols. Oxf. 1886-88.
- 5502 **Roberts, R. D.** Introduction to modern geology.
Lond. 1893.

·55 GEOLOGY

- 5502 **Schwarz, H. E. L.** Causal geology. Lond. 1910.
Ref. ·5503 **Kenngott, A.** Handwörterbuch der Mineralogie, Geologie und Palæontologie. 3 vols. Breslau 1882-87.
- 5504 **Geikie, Sir A.** Geological sketches at home and abroad. Lond. 1882.
- 5504 ——— Types of scenery and their influence on literature. Lond. 1898.
- 5504 **Geikie, J.** Fragments of earth lore. Edin. 1893.
- 5504 **Paulcke, W.** Das Experiment in der Geologie. Berl. 1912.
- 5504 **Prestwich, J.** Collected papers on controverted questions of geology. Lond. 1895.
- 5504 **Sollas, W. J.** The Age of the earth. Lond. 1908.

·5505 PERIODICALS.

- 5505 M. **Geological magazine.** Vol. 1→ Lond. 1864→
- 5505 J. **Journal of geology.** Vol. 1→ Chicago 1893→

·5506 SOCIETIES.

- 5506 G.J.C. **Geological society of London.** Centenary, Sept.-Oct., 1907. Lond. 1909.
- 5506 G.J. ——— Geological literature added to library. Lists, 1873/74→. [*Appendix to Journal.*]
- 5506 G.J. ——— Proc. Vols. 1-3. Lond. [1833]-42.
- 5506 G.J. ——— Quarterly Journal. Vol. 1→ Lond. 1845→
- 5506 G.T. ——— Trans. Vols. 1-5; Ser. II., vols. 1-7. Lond. 1811-56.
- 5506 ——— History of the Geological society of London. By G.E.W. H. B. Woodward. Lond. 1908.
- 5506 G.A. **Geologists' association.** Proc. Vol. 1→ Lond. 1865→
- 5506 **Geological society of Glasgow.** Trans. Vol. 1→ (4143) Glasg. 1868→
- 5506 (4143) **Macnair, P., and Mort, F.** History of the Geological Society of Glasgow, 1858-1908. Glasg. 1908.

55 GEOLOGY

- 5506(4143) **Glasgow University — Geological Department,**
G.U. Papers. Vol. 1→ Glasg. 1915→
- 5506 **Edinburgh geological society.** Trans. Vol. 1→
(4144) Edin. 1870→
- 5506(42) **Geological survey.** Memoirs. 1846→ Lond. 1846→
- 5506(52) **Tôhoku University.** Science reports. Ser. II. (Geo-
T.U. logy). Vol. 1→ [Sendai] 1914→
- 5506 **Union of South Africa—Mines department.** Reports.
(682) 1909→ Pretoria 1910→
- 5506 **Cape of Good Hope—Department of Mines.** Geo-
(687) logical commission. Reports. [2]→
Cape Town 1898→
- 5506(71) **Canada—Department of mines—Geological survey.**
G.M.C Catalogue of publications. Ottawa 1909→
- 5506(71) ——— Guide books. 1→ Ottawa 1913→
G.G.
- 5506(71) ——— Memoirs. 1→ Ottawa 1910→
G.M.
- 5506(71) ——— Prospector's handbook. 1→
G.P. Ottawa 1914→
- 5506(71) **Canada—Department of mines—Mines.** Bulletins.
M.B. 1→ Ottawa 1909→
- 5506(71) ——— Catalogue of publications. 1907/11.
M.P.C. Ottawa 1912.
- 5506(71) ——— [Publications.] 1907→
M.P. Ottawa 1908→
- 5506(71) ——— Report of mineral production of Canada.
M.R. 1906→ Ottawa 1909→
- 5506(71) **Canada—Geological survey.** Reports. 1853-57,
G.R. 1863-84; n.s. 1885→ Toronto 1857→
- 5506(73)B. **United States—Geological survey.** Bulletins. 218→
Wash. 1903→
- 5506(73)M. ——— Mineral resources. 1902→ Wash. 1904→
- 5506(73)MO. ——— Monographs. 15, 22, 46→ Wash. 1889→
- 5506(73)P. ——— Professional papers. 9→ Wash. 1903→
- 5506(73)PU. ——— Publications. N.S. 1→ Wash. 1912→

55 GEOLOGY

- 5506(73)**R. United States—Geological survey.** Reports. 1→
Wash. 1880→
- 5506(73)**W. ——— Water supply papers.** 80→ Wash. 1903→
- 5506 **Iowa—Geological survey.** Reports. 1→
(777) **R.** Des Moines 1893→
- 5506 **California University publications.** Geology. Vol.
(794) **C.U.** 1→ Berkeley 1896→
- 5506 **New Zealand—Geological Survey.** Bulletins. N.S.
(931) 1→ Wellington 1906→
- 5506 **New South Wales—Department of mines.** Reports.
(944) **M.** 1877→ Sydney 1878→
- f. 5506 **Victoria—Geological survey.** Memoirs. 4→
(945) **M.** Melbourne [1907]→

5507 METHODS OF STUDY.

- 5507 **Cole, G. A. J.** Aids in practical geology. Lond. 1902.
- 5507 **Farrell, J. H.** Practical field geology. New York 1912.
- 5507 **Geikie, Sir A.** Outlines of field geology. Lond. 1879.
- 5507 **Geikie, J.** Structural and field geology. Edin. 1905.
- 5507 **Keilhack, K.** Lehrbuch der praktischen Geologie.
Stuttg. 1896.
- 5507 **Lahee, F. H.** Field geology. Lond. 1916.
- 5507 **Monckton, H. W., and Herries, R. S.** Geology in the
field. Lond. 1910.

5508 COLLECTIVE WORKS, ATLASES, ETC.

- 55081 **Sheppard, T.** William Smith, his maps and memoirs.
Smi. S. Hull, 1920.
- 55084(4) **Europe.** Carte géologique internationale de l'Europe.
Pt. 1→ Berl. 1894→
- 55084 **Reynolds, J.** Geological atlas of Great Britain.
(42) Lond. 1889.
- 55084 **Woodward, H.** Stanford's Geological atlas of Great
(42) Britain. Lond. 1904.
- 55084 **United States—Geological survey.** Geological atlas of
(73) the United States. Pt. 1→ Wash. 1894→

·55 GEOLOGY

·5509 HISTORY.

·5509 **Zittel, K. A. von.** History of geology and palæontology.
Lond. 1901.

Ref. ·016 **Bibliographia geologica.** Par M. Murlon. Série
: 55 *B.G.* A. Publications antérieures à 1896. Vol. 1→
Brux. 1899→

Ref. ·016 — — — [Série B. 1896→] Vol. 1→ Brux. 1897→
: 55 *B.G.*

Ref. ·016 **Lavis, H. J. Johnston-** Bibliography of the geology
: 55121 and eruptive phenomena of the more important
volcanoes of Southern Italy. Lond. 1918

·016 **Royal Society.** International catalogue of scientific
: 55 literature. Geology. [1901→] Lond. 1903→

·55092 **Geikie, Sir A.** Charles Darwin as geologist.
Camb. 1909.

·55092 **Irons, J. C.** Autobiographical sketch of James Croll.
Lond. 1896.

·55092 **Lyell, Sir C.** Life. 2 vols. Lond. 1881.

·55092 **Newbigin, M. I., and Flett, J. S.** James Geikie, the
man and the geologist. Edin. 1917.

·55(·) REGIONAL GEOLOGY.

·55(∞) **Reed, F. R. C.** Geology of British empire. Lond. 1921.

·55(2343) **Bonney, T. G.** The Building of the Alps. Lond. 1912.

·55(235) **Burrard, Sir S. G., and Hayden, H. H.** Geography and
geology of the Himalaya Mountains and Tibet.
Calcutta 1908.

·55(26) **Meunier, S.** Histoire géologique de la mer.
Paris 1917.

·55(4) **Geikie, J.** Prehistoric Europe. Lond. 1881.

·55(41) **Geikie, Sir A.** Scenery of Scotland. Lond. 1901.

·55(41) **Macnair, P.** Geology and scenery of the Grampians
and the Valley of Strathmore. 2 vols. Glasg. 1908.

Λ **Nicol, J.** Geology and scenery of the North of Scotland.
Edin. 1866.

·55 GEOLOGY

- 55(41) **Nicol, J.** Guide to geology of Scotland. Edin. 1844.
- 55(4114) **Cadell, H. M.** The Geology and scenery of Sutherland. Edin. 1896.
- 55(4117) **MacCulloch, J.** Description of the western islands of Scotland. 3 vols. Lond. 1819.
- 55(4125) **Bremner, A.** Physical geology of the Dee valley. Abd. 1912.
- 55(4125) ——— Physical geology of the Don basin. Abd. 1921.
- 55(414) **Murdoch, J. B.** Geology and palaeontology of the Clyde drainage area. Ed. J. B. M. Glasg. 1904.
- 55(42) **Avebury, Sir J. Lubbock, 1st baron.** Scenery of England. Lond. 1902.
- 55(42) **Browne, A. J. Jukes=.** The Building of the British Isles. Lond. 1911.
- 55(42) **Ramsay, A. C.** Physical geology and geography of Great Britain. Lond. 1894.
- 55(4235) **Arber, E. A. N.** The Coast scenery of North Devon. Lond. 1911.
- 55(4235) **Browne, A. J. Jukes=.** The Hills and valleys of Torquay. Torquay 1907.
- 55(4248) **Lapworth, C.** Sketch of the geology of the Birmingham district. Birmingham 1907.
- 55(4274) **Sheppard, T.** Geological rambles in East Yorkshire. Lond.
- 55(428) **Marr, J. E.** Geology of the Lake District. Camb. 1916.
- 55(43) **Walther, J.** Lehrbuch der Geologie von Deutschland. Leip. 1910.
- 55(4563) **Washington, H. S.** The Roman comagmatic region. Wash. 1906.
- 55(494) **Avebury, Sir J. Lubbock, 1st baron.** Scenery of Switzerland. Lond. 1896.
- 55(5) **Launay, L. de.** La Géologie et les richesses minérales de l'Asie. Paris 1911.

·55 GEOLOGY

- 55(54) **Medlicott, H. B., and Blanford, W. T.** Geology of India. With atlas. Calcutta 1879.
- 55(54) **Vredenburg, E. W.** Geology of India. Calcutta 1910.
- 55(54) **Wadia, D. N.** Geology of India. Lond. 1919.
- 55(564) **Bellamy, C. V., and Browne, A. J. Jukes-.** Geology of Cyprus. Plymouth 1905.
- 55(584) **Pumpelly, R.** Explorations in Turkestan, with an account of the basin of Eastern Persia and Sistan. Expedition of 1903 under the direction of R. P. Wash. 1905.
- 55(669) **Falconer, J. D.** Geology and geography of Northern Nigeria. Lond. 1911.
- 55(68) **Hatch, F. H., and Corstorphine, G. S.** Geology of South Africa. Lond. 1905.
- 55(687) **Rogers, A. W.** Geology of Cape Colony. Lond. 1905.
- 55(7) **Rice, W. N., and others.** Problems of American geology. New Haven 1915.
- 55(729) **Vaughan, T. W.** Contributions to the geology and paleontology of the West Indies. Wash. 1919.
- 55(8) **Darwin, C.** Geological observations on South America. Lond. 1846.
- 55(81) **Branner, J. C.** Outlines of the geology of Brazil. [Rochester; N.Y. 1920.]
- 55(931) **Park, J.** Geology of New Zealand. Christchurch 1910.
- 55(942) **Howchin, W.** Geology of South Australia. Adelaide 1918.

·55: RELATION DIVISIONS.

- 55 **Joly, J.** Radioactivity and geology. Lond. 1909.
: 54121
- 55:573 **Kraemer, H.** Weltall und Menschheit. Hrsg. H. K. 5 vols. Berl. [1902-04].
- 55 **Ries, H., and Watson, T. L.** Engineering geology. New York 1914.
: 62211

55 GEOLOGY

551 PHYSICAL GEOLOGY.

- 551 **Hettner, A.** Grundzüge der Länderkunde. Vol. 1→
Leip. 1907→
- 55102 **Green, A. H.** Physical geology. Lond. 1882.
- 55104 **Daubrée, A.** Études synthétiques de géologie expérimentale. Paris 1879.
- 55104 **Shaler, N. S.** Sea and land. Lond. 1895.

5511 STRUCTURE OF EARTH.

- 5511 **Reade, T. M.** Evolution of earth structure. Lond. 1903.
- 551104 **Gregory J. W.** Nature and origin of fiords.
Lond. 1913.
- 55113 **Fisher, O.** Physics of the earth's crust. Lond. 1881.

5512 INTERNAL ACTION.

- 5512 **Milne, J.** Seismology. Lond. 1898.
- 551206 **Association internationale de sismologie.** Comptes-
A.I. rendus des séances de la troisième réunion, Zermatt,
1909. Budapest 1910.
- 55121 **Anderson, T.** Volcanic studies. Lond. 1903.
- 55121 ——— 2nd ser. Lond. 1917.
- 55121 **Bonney, T. G.** Volcanoes, their structure and significance. Lond. 1912.
- 55121 **Darwin, C.** Geological observations on the volcanic islands visited during the voyage of H.M.S. "Beagle".
Lond. 1844.
- 55121 **Iddings, J. P.** The Problem of volcanism:
New Haven 1914.
- 55121 **Judd, J. W.** Volcanoes, what they are and what they teach. Lond. 1893.
- 55121 **Geikie, Sir A.** Ancient volcanoes of Great Britain.
(42) 2 vols. Lond. 1897.
- 55121 **Scrope, G. P.** Geology and extinct volcanoes of central
(445) France. Lond. 1858.
- 55121 **Heilprin, A.** Mont Pelée and the tragedy of Martinique.
(729) Philad. 1905.

·55 GEOLOGY

- f. 55121 **Lacroix, A.** La Montagne Pelée et ses éruptions.
(729) Paris 1904.
- 55121 **Symons, G. J.** The Eruption of Krakatoa and subsequent phenomena. Ed. G. J. S. Lond. 1888.
(92)
- 55121 **Brigham, W. T.** Volcanoes of Kilauea and Mauna Loa.
(969) Honolulu 1909.
- 55122 **Knott, C. G.** Physics of earthquake phenomena.
Oxf. 1908.
- 55122 **Milne, J.** Earthquakes, and other earth movements.
Lond. 1913.
- 55122 **Montessus de Ballore, F. de.** Les Tremblements de terre.
Paris 1906.
- 55122 **California earthquake investigation commission.**
(794) Report, 1906. 2 vols. and Atlas. Wash. 1908.
- 55123 **Thorkelsson, T.** Hot springs of Iceland.
(4911) Kjøbenhavn 1910.

·5513 EXTERNAL ACTION.

·55131 GLACIATION.

- 55131 **Bonney, T. G.** Ice-work, past and present. Lond. 1896.
- 55131 **Forbes, J. D.** Occasional papers on the theory of glaciers.
Edin. 1859.
- 55131 **Hobbs, W. H.** Characteristics of existing glaciers.
New York 1911.
- 55131 **Howorth, Sir H. H.** The Glacial nightmare and the flood. 2 vols. Lond. 1893.
- 55131 — Ice or water. Vol. 1→ Lond. 1905→
- 55131 **Forbes, J. D.** Travels through the Alps of Savoy and other parts of the Pennine chain. With observations on the phenomena of glaciers. Map. Edin. 1843.
(494)
- 55131 **Tyndall, J.** Glaciers of the Alps. Lond. 1860.
(494)

·55135 DEPOSITION AND EROSION.

- 55135 **Ashton, W.** The Evolution of a coast-line. Lond. 1920.
- 55135 **Carey, A. E., and Oliver, F. W.** Tidal lands: a study of shore problems. Lond. 1918.

55 GEOLOGY

- 55135 **Case, G. O.** Coast sand dunes, sand spits, and sand wastes. Lond. 1914.
- 55135 **Chambers, R.** Ancient sea-margins as memorials of changes in the relative level of sea and land. Edin. 1848.
- 55135 **Cornish, V.** Waves of sand and snow. Lond. [1914].
- 55135 **Johnson, D. W.** Shore processes and shoreline development. New York 1919.
- 55135 **Owens, J. S., and Case, G. O.** Coast erosion and foreshore protection. Lond. [1908].
- 55135 **Wheeler, W. H.** The Sea-coast. Lond. 1903.
- 55135 **Sheppard, T.** Lost towns of Yorkshire coast. Lond. 1912.
(4274)
- 55135 **Gerhardt, P.** Handbuch des deutschen Dünenbaues. Berl. 1900.
(43)
- f. 55135 **Brohm, Major.** Helgoland in Geschichte und Sage. Cuxhaven 1907.
(43518)

5514 PHYSICAL GEOGRAPHY.

- 5514 **Berget, A.** Physique du globe et météorologie. Paris 1904.
- 5514 **Davis, W. M.** Geographical essays. Boston [Mass. 1909].
- 5514 **Hobbs, W. H.** Earth features and their meaning. New York 1912.
- 5514 **Huxley, T. H.** Physiography. Lond. 1878.
- 5514 **Lake, P.** Physical geography. Camb. 1915.
- 5514 **Martonne, E. de.** Traité de géographie physique. Paris 1909.
- 5514 **Maury, M. F.** Physical geography. New York [1908].
- 5514 **Mill, H. R.** The Realm of nature, an outline of physiography. Lond. 1892.
- 5514 **Penck, A.** Morphologie der Erdoberfläche. 2 vols. Stuttg. 1894.
- 5514 **Reclus, E.** New physical geography. 2 vols. Lond. 1888.

·55 GEOLOGY

- 5514 **Salisbury, R. D.** Physiography. New York 1919.
- 5514 **Strachey, R.** Lectures on geography. Lond. 1888.
- 5514 **Suess, E.** Face of the earth. Vol. 1→ Oxf. 1904→
- 5514 **Tarr, R. S.** College physiography. New York 1918.
- 016 **Royal Society.** International catalogue of scientific
:5514 literature. Geography. [1901→] Lond. 1903→
- 5514 **Cadell, H. M.** Story of the Forth. Glasg. 1913.
(413)
- 5514 **Blanford, H. F.** Physical geography for use of Indian
(54) schools. Lond. 1909.
- 55143 **Geikie, J.** Mountains. Edin. 1913.
- 55143 **Reade, T. M.** Origin of mountain ranges. Lond. 1886.
- 55144 **Knebel, W. von.** Höhlenkunde. Braunsch. 1906.
- 55144 **Broeck, E. van den.** Les Cavernes et les rivières
(493) souterraines de la Belgique. 2 vols. Brux. 1910.
- 55145 **Walther, J.** Das Gesetz der Wüstenbildung.
Leip. 1912.
- f. ·55146 **"Belgica."** Croisière océanographique accomplie à
bord de la Belgica dans la Mer du Grönland, 1905.
Brux. 1907.
- 55146 **Chamberlin, T. C., and others.** Tidal and other problems.
Wash. 1909.
- 55146 **Maury, M. F.** Physical geography of the sea.
New York 1856.
- 55147 **Canada—Department of naval service.** Currents in
entrance to St. Lawrence. Ottawa 1913.
- 551481 **Früh, J., and Schröter, C.** Die Moore der Schweiz.
(494) Bern 1904.
- 551481(7) **Russell, I. C.** Lakes of North America.
Boston [Mass.] 1894.
- 551482 — - River development. Lond. 1909.

·5515 METEOROLOGY.

- A **Bain, A.** Meteorology. Edin. 1849.
- 5515 **Bjerknes, V.** Dynamic meteorology. 2 pts. and vol.
of plates. Wash. 1910-11.

55 GEOLOGY

- 551502 **Geddes, A. E. M.** Meteorology. Lond. 1921.
- 551502 **Hann, J.** Lehrbuch der Meteorologie. Leip. 1906.
- 551502 **Henkel, F. W.** Weather science. Lond. 1911.
- 551502 **Moore, Sir J. W.** Meteorology. Lond. 1910.
- 551502 **Scott, R. H.** Elementary meteorology. Lond. 1883.
- 551504 **Abercromby, R.** Weather. Lond. 1887.
- 551504 **Bezold, W. von.** Gesammelte Abhandlungen aus den Gebieten der Meteorologie und des Erdmagnetismus. Braunsch. 1906.
- 551504 **Shaw, W. N.** Forecasting weather. Lond. 1911.
- f. 551504 **"Scotia."** Ice observation, etc. : report on work carried out by the "Scotia," 1913. Lond. 1914.
(261)
- 551506 **Meteorological committee.** Reports. 1867-75, M.C. 1893/4→ Lond. 1868→
- f. 551506 **Meteorological Office.** Geophysical memoirs. Vol. M.O.M. 1→ Lond. 1914→
- 551506 **Meteorological society, Royal.** Meteorological record. M.R. 28 vols. Lond. 1882-1909.
- 551506 — Quarterly journal. Vol. 2→ Lond. 1875→
M.J.J.
- 551506 **Scottish meteorological society.** Journal. N.S. (41) M.S. Vol. 1→ Edin. 1866→
- 551506 **Turin University—Royal observatory.** Osservazioni (45) T. meteorologiche. 1901→ Torino 1902→
- 551506 **Norwegisches meteorologisches Institut.** Jahrbuch. (48) N.M. 1874-76, 1885→ Christiania 1877→
- 551506 **Mysore.** Meteorology in Mysore. [Report 1]→ (54) M.M. Bangalore 1896→
- 551506 **Canada—Meteorological service.** Reports. 1881-82, (71) M. 1884-90, 1895→ Ottawa 1883→
- 551507 **Angot, A.** Instructions météorologiques. Paris 1903.
- f. 5515084 **Bartholomew, J. G., and Herbertson, A. J.** Atlas of meteorology. Westm. 1899.
- 5515084 **Meteorological Office.** The Weather map. Lond. 1916.

'55 GEOLOGY

- '551509 **Waldo, F.** Modern meteorology. Lond. 1893.
- '5515 **Benedict, F. G.** Composition of the atmosphere, etc.
:543 Wash. 1912.
- '55151 **Brillouin, M.** Mémoires originaux sur la circulation de
l'atmosphère—Halley, Hadley, Maury, etc. Ed. M. B.
Paris 1900.
- '55151 **Ferrel, W.** Popular treatise on the winds.
New York 1893.
- '55156 **Croll, J.** Climate and time in their geological relations.
Lond. [1875].
- '55156 **Hann, J.** Handbook of climatology. New York 1903.
- '55156 ——— Handbuch der Klimatologie. Vol. 1→
Stuttg. 1908→
- '55156 **Ward, R. de C.** Climate, considered especially in re-
lation to man. Lond. 1908.
- '55156(54) **Blanford, H. F.** Climates and weather of India,
Ceylon, and Burmah. Lond. 1889.
- '55156(7) **Huntington, E.** Climatic factor in arid America.
Wash. 1914.
- '55157 **Clarke, G. A.** Clouds. Lond. 1920.
- '55157 **Clayden, A. W.** Cloud studies. Lond. 1905.
- '5515705 **Regenwaarnemingen in Nederlandsch=Indië.** 1879-
R. 85, 1887-8, 1891, 1895-6, 1899→ Batavia 1880→
- '5515705 **Symons' British rainfall.** 1863→ Lond. 1864→
B.R.
- '5515706(54) **Mysore—Meteorological department.** Rainfall
M.R. registration. 1893→ Bangalore 1894→
- '55157(943) **Queensland.** Results of rainfall observations made
in Queensland. Melbourne 1914.

'5517 STRATIGRAPHICAL GEOLOGY.

- '5517 **Grabau, A. W.** Principles of stratigraphy.
New York 1913.
- '5517 **Marr, J. E.** Principles of stratigraphical geology.
Camb. 1898.

·55 GEOLOGY

- 55173 **Murchison, Sir R. I.** *Siluria: history of the oldest rocks in the British Isles and other countries.* Lond. 1867.
- 55179 **Ball, Sir R.** *Cause of an ice age.* Lond. 1891.
- 55179 **Geikie, J.** *Great ice age and its relation to the antiquity of man.* Lond. 1894.
- 55179 **Wright, W. B.** *The Quaternary ice age.* Lond. 1914.
- 55179(494) **Penck, A., and Brückner, E.** *Die Alpen im Eiszeitalter.* 3 vols. Leip. 1909.

·5518 STRUCTURAL GEOLOGY.

- 5518 **Dwerryhouse, A. R.** *Geological and topographical maps.* Lond. 1911.
- 5518 **Leith, C. K.** *Structural geology.* New York 1913.

·5519 AGENTS OF GEOLOGICAL WORK.

- 55192 **Tyndall, J.** *Forms of water in clouds and rivers, ice and glaciers.* Lond. 1874.
- 55194 **Elsden, J. V.** *Chemical geology.* Lond. 1910.
- 55196 **Darwin, C.** *Structure and distribution of coral reefs.* Lond. 1874.

·552 LITHOLOGY.

- B.M. ·552 **British Museum—Mineral department.** *Introduction to the study of rocks.* By L. Fletcher. Lond. 1909.
- Fle 2
- 55202 **Harker, A.** *Petrology for students.* Camb. 1902.
- 55202 **Hatch, F. H.** *Text-book of petrology.* Lond. 1909.
- 55202 **Hatch, F. H., and Rastall, R. H.** *Petrology of sedimentary rocks.* Lond. 1913.
- 55202 **Hommel, W.** *Grundzüge d. systemat. Petrographie.* Vol. 1→ Berl. 1919→
- 55202 **Mennell, F. P.** *Manual of petrology.* Lond. 1913.
- 55202 **Rosenbusch, H.** *Elemente der Gesteinslehre.* Stuttg. 1901.
- 55202 — *Mikroskopische Physiographie der Mineralien und Gesteine.* 4 vols. Stuttg. 1904-08.
- 55202 **Weinschenk, E.** *Fundamental principles of petrology.* New York 1916.

55 GEOLOGY

- 55202 **Zirkel, F.** Lehrbuch der Petrographie. 3 vols.
Leip. 1893-94.
- 55204 **Adams, F. D., and Coker, E. G.** Investigation into the
elastic constants of rocks. Wash. 1906.
- 55207 **Weinschenk, E.** Petrographic methods.
New York 1912.
- 55207 **Wright, F. E.** Methods of petrographic-microscopic
research. Wash. 1911.
- 5521 **Chamberlin, R. T.** The Gases in rocks. Wash. 1908.
- 5521 **Daly, R. A.** Igneous rocks and their origin.
New York 1914.
- 5521 **Harker, A.** Natural history of igneous rocks.
Lond. [1909].
- 5521 **Iddings, J. P.** Igneous rocks. 2 vols.
New York 1909-13.
- 5521(42) **Teall, J. J. H.** British petrography with special re-
ference to igneous rocks. Lond. 1888.
- 5524 **Leith, C. K., and Mead, W. J.** Metamorphic geology.
New York 1915.
- 5524 **Rutley, F.** Granites and greenstones. Lond. 1894.
- 5524(482) **Goldschmidt, V. M.** Die Kontaktmetamorphose im
Kristianiagebiet. Kristiania 1911.
- 55244 **Grubenmann, U.** Die Kristallinen Schiefer. 2 vols.
Berl. 1904-07.
- 55246 **Watson, J.** British and foreign marbles, etc.: a de-
scriptive catalogue of specimens in the Sedgwick
Museum, Cambridge. Camb. 1916.
- 5525 **Cayeux, L.** Introduction à l'étude pétrographique des
roches sédimentaires. Paris 1916.
- B.M. 5526 **British Museum—Mineral department.** Introduction
Fle 2 to the study of meteorites. By L. Fletcher.
[Lond.] 1908.
- 5528 **Rosenbusch, H.** Mikroskopische Physiographie der
massigen Gesteine. Stuttg. 1896.

553 ECONOMIC GEOLOGY.

- 553 **Crook, T.** Economic mineralogy. Lond. 1921.
- 553 **Grabau, A. W.** Geology of the non-metallic mineral deposits other than silicates. Vol. 1—Principles of salt deposition. New York 1920.
- 553(∞) **Spurr, J. E.** Political and commercial geology. Ed. J. E. S. New York 1920.
- 553061 **Home Office.** Mines and quarries—general report, with H.O. - statistics. 1910→ Lond. 1911→
- 553(713) **Collins, W. H.** Preliminary report on Gowganda Mining Division, Ontario. Ottawa 1909.
- 553(73) **Tarr, R. S.** Economic geology of the United States. New York 1894.
- 5531 **Beck, R.** Nature of ore deposits. 2 vols. New York 1905.
- 5531 **Beyschlag, F., and others.** Deposits of useful minerals. Vol. 1→ Lond. 1914→
- 5531 **Lindgren, W.** Mineral deposits. New York 1913.
- 5531 **Thomas, H. H., and MacAlister, D. A.** Geology of ore deposits. Lond. 1909.
- 5531(7) **Kemp, J. F.** Ore deposits of the United States and Canada. New York 1903.
- 5532 **Danby, A.** Natural rock asphalts and bitumens. Lond. 1913.
- 5532 **Ronaldson, J. H.** Coal. Lond. 1920.
- 5532 **Thorpe, Sir T. E.** Coal, its history and uses. Ed. Prof. Thorpe. Lond. 1878.
- 5532(∞) **McInnes, W., and others.** Coal resources of the world. 3 vols. and atlas. Toronto 1913.
- 5532(41) **Dron, R. W.** Coal-fields of Scotland. Lond. 1902.
- 5532(42) **Gibson, W.** Coal in Great Britain. Lond. 1920.
- 5532(71) **Porter, J. B., and Durley, R. J.** Coals of Canada. Vol. 1→ Ottawa 1912→
- 5532(81) **White, I. C.** Relatorio final. [Of Brazil Coal Commission.] [*Portuguese and English.*] Rio de Janeiro 1908.

55 GEOLOGY

5532
(814)	Oliveira, E. P. de. Regiões carboníferas dos Estados do Sul. Rio de Janeiro 1918.
55323	Potonié, H. Die Entstehung der Steinkohle. Berl. 1910.
55328	Cox, G. H., and others. Petroleum geology. New York 1921.
55328	Craig, E. H. C. Oil-finding. Lond. 1912.
55328	Johnson, R. H., and Huntley, L. G. Principles of oil and gas production. New York 1916.
55328	Tower, W. S. The Story of oil. New York 1909.
55328	Ziegler, V. Popular oil geology. New York 1920.
55328
(73)	Bosworth, T. O. Geology of the Mid continent oilfields. New York, 1920.
55328
(769)	Jillson, W. R. The Oil and gas resources of Kentucky. Frankfort, Ky. 1919.
5533
(718)	Hayes, A. O. Wabana iron ore of Newfoundland. Ottawa 1915.
55341	Maclaren, J. M. Gold—its geological occurrence and geographical distribution. Lond. 1908.
55341
(88)	Harrison, J. B. Geology of the goldfields of British Guiana: Lond. 1908.
55348	Ontario nickel commission, Royal. Report. Toronto 1917.
5535	Eckel, E. C. Building stones. New York 1912.
5535	Hirschwald, J. Handbuch der bautechnischen Gesteinsprüfung. Berl. 1912.
5535	Howe, J. A. Geology of building stones. Lond. 1910.
5535	Merrill, G. P. Stones for building. New York 1903.
5535	Watson, J. British and foreign building stones. Camb. 1911.
5535(62)	Hume, W. F. Building stones of Cairo neighbourhood and Upper Egypt. Cairo 1910.
5535(71)	Parks, W. A. Building and ornamental stones of Canada. Vol. 1→ Ottawa 1912→
55351	Renwick, W. G. Marble and marble working. Lond. 1909.

·55 GEOLOGY

- 55361 **Ries, H.** Clays—their occurrence, properties and uses.
New York 1906.
- 55362 **Boswell, P. G. H.** British sands and rocks used in
glass-making. Lond. 1918.
- 5538 **Church, A. H.** Precious stones. Lond. 1905.
- 5538 **Goodchild, W.** Precious stones. Lond. 1908.
- 5538 **Streeter, E. W.** Precious stones and gems.
Lond. 1898.
- 5538 **Wodiska, J.** Book of precious stones. New York 1909.
- 5538 **Smith, J.** Semi-precious stones of Carrick.
(4142) Kilwinning [1910].

•56 PALÆONTOLOGY.

- B.M. '56 **British Museum.** List of casts of fossils. Lond. 1906.
'56 **Palaeontologia universalis.** Centuria 1→
[Berl.] 1903→
'5602 **Nicholson, H. A., and Lydekker, R.** Manual of palaeontology. 2 vols. Edin. 1889.
'5602 **Zittel, K. A. von.** Text-book of palaeontology. Vol. 1→
Lond. 1913→

·5606 SOCIETIES.

- 5606(42) **Geological survey—Great Britain.** Memoirs. Palæontology. Vol. 1→ Glasg. 1908→
P.S. ·56069 **Palæontographical society.** Lists of members, monographs, etc. 1867→ [Lond.] 1868→
P.S. ·56 **PALÆONTOGRAPHICAL SOCIETY.** Publications. Lond. 1848→

·56(·) STRATIGRAPHICAL AND REGIONAL
PALÆONTOLOGY.

- 56(114) **Clarke, J. M.** Fosséis devonianos do Paraná. [*Portu-
: 8142)* *guese and English.*] Rio de Janeiro 1913.
- P.S. ·56 **King, W.** Permian fossils of England. Lond. 1850.
(115:42)
- P.S. ·56 **Blake, J. F.** Fauna of the Cornbrash. Lond. 1907.
(1162)
- 56(42) **Etheridge, R.** Fossils of the British Islands strati-
graphically and zoologically arranged. Vol. 1→
Oxf. 1888→
- 56:578 **Renault, B.** Sur quelques microorganismes des com-
bustibles fossiles. St. Étienne 1900.

·56 PALÆONTOLOGY

·561 FOSSIL PLANTS.

- 561 **Dawson, Sir J. W.** Geological history of plants.
Lond. 1888.
- 561 **Pelourde, F.** Paléontologie végétale. Paris 1914.
- 561 **Potonié, H., and Gothan, W.** Paläobotanisches Praktikum.
Berl. 1913.
- 561 **Scott, D. H.** Studies in fossil botany. Lond. 1900.
- 561 **Seward, A. C.** Fossil plants. 4 vols.
Camb. 1898-1919.
- 561 **Solms-Laubach, H.** Fossil botany. Oxf. 1891.
- B.M. ·561 **British Museum.** Catalogue of the palæozoic plants in
(112) the British Museum. By R. Kidston. Lond. 1886.
- 561(114) **Arber, E. A. N.** Devonian floras. Camb. 1921.
- P.S. ·561 **Binney, E. W.** Structure of fossil plants found in the
(115) carboniferous strata. Lond. 1875.
- 561(115) **Jongmans, W. J.** Anleitung zur Bestimmung der
Karbonpflanzen West-Europas. Vol. 1.
[s-Gravenhage 1911.]
- B.M. ·561 **British Museum.** Catalogue of the fossil plants of the
(115:54) glossopteris flora, being a monograph of the permo-
carboniferous flora of India. By A. E. N. Arber.
Lond. 1905.
- B.M. ·561 — Catalogue of the mesozoic plants in the British
(116) Museum. By A. C. Seward. 4 vols.
Lond. 1894-1904.
- B.M. ·561 — Catalogue of mesozoic plants in the British
(116) Museum. By M. C. Stopes. Pt. 1→ Lond. 1913→
- f. ·561 **Zigno, A. di, Baron.** Flora fossilis formationis ooli-
(1162) thicae. 2 vols. Padova 1856-85.
- 561 **Hartz, N.** Bidrag til Danmarks tertiære og diluviale
(118:489) flora. (Atlas.) Kjøbenhavn 1909.
- 561 **Penhallow, D. P.** Tertiary plants of British Columbia.
(118:711) Ottawa 1908.
- P.S. ·561 **Gardner, J. S., and Ettinghausen, C. B.** British
(1181:42) eocene flora. 2 vols. Lond. 1882-86.

56 PALÆONTOLOGY

- *561 Seward, A. C. Fossil plants as tests of climate.
:55156 Lond. 1892.
*56159(7) Wieland, G. R. American fossil cycads. 2 vols.
Wash. 1906-16.
P.S.*5617 Williamson, W. C. Morphology and histology of
Stigmaria ficoides. Lond. 1887.

562 FOSSIL INVERTEBRATES.

- 562 **Abel, O.** Lehrbuch der Paläozoologie. Jena. 1900.
 B.M. 562 **British Museum.** Guide to fossil invertebrate animals.
 [By F. A. Bather.] Lond. 1907.
 562 **Neumayr, M.** Die Stämme des Thierreichs. Wirbellose
 Thiere. Vol. 1→ Wien 1889→
 562 **Woods, H.** Palæontology—invertebrate. Camb. 1902.
 P.S. 562 **Whidborne, G. F.** Devonian fauna of the south of
 (114:423) England. Vol. 1→ Lond. 1892→
 562(7) **Grabau, A. W., and Shimer, H. W.** North American
 index fossils. Invertebrates. 2 vols.
 New York 1909-10.

563 FOSSIL PROTOZOA, ETC.

- B.M. 56312 **British Museum.** Catalogue of the fossil Foraminifera.
By T. R. Jones. Lond. 1882.
- P.S. 56312 **Brady, H. B.** Carboniferous and permian Foraminifera.
(115) Lond. 1876.
- P.S. 56312 **Jones, T. R., and others.** Foraminifera of the Crag.
(1183) Lond. 1897.
- B.M. 5634 **British Museum.** Catalogue of the fossil sponges. By
G. J. Hinde. Lond. 1883.
- P.S. 5634 **Hinde, G. J.** British fossil sponges. Vol. 1→
(42) Lond. 1912→
- 5636 **Nicholson, H. A.** On the structure and affinities of the
genus *Monticulipora*. Edin. 1881.
- 5636 ——— Structure and affinities of the "Tabulate corals" of
(112) the palæozoic period. Edin. 1879.
- P.S. 5636 **Duncan, P. M.** British fossil corals. Second ser.
(42) Lond. 1872.

·56 PALÆONTOLOGY

- P.S.·5636 **Edwards, H. M., and Haime, J.** British fossil corals.
(42) Lond. 1854.
- P.S.·5637 **Elles, G. C., and Wood, E. M. R.** British graptolites.
(42) Lond. 1918.
- P.S.·5637 **Nicholson, H. A.** British stromatoporoids.
(42) Lond. 1892.
- P.S.·5639 **Wright, T.** British fossil Echinodermata of the oolitic
(1116:42) formations. 2 vols. Lond. 1857-80.
- P.S.·5639 — British fossil Echinodermata from the cretaceous
(1117:42) formation. Vol. 1→ Lond. 1882→
- P.S.·5639 **Forbes, E.** Echinodermata of the British tertiaries.
(1118:42) Lond. 1852.
- B.M.·5639I **British Museum.** Catalogue of Blastoidea in the British
Museum. By R. Etheridge and P. H. Carpenter.
Lond. 1886.
- B.M.·5639I — Genera and species of Blastoidea. By F. A.
Bather. Lond. 1899.

·564 FOSSIL MOLLUSCA.

- P.S.·564 **Morris, J., and Lycett, J.** Mollusca from the great
(1116:427) oolite, chiefly from Minchinhampton and the coast
of Yorkshire. With supplement. Lond. 1854-63.
- B.M.·564 **British Museum.** Catalogue of tertiary Mollusca in the
(1118) British Museum. By G. F. Harris. Pt. 1→
Lond. 1897→
- B.M.·564 — List of the Frederick E. Edwards collection of
(11181:42) British oligocene and eocene Mollusca. By R. B.
Newton. Lond. 1891.
- P.S.·564 **Wood, S. V.** Crag Mollusca, with description of shells
(11183:42) from the upper tertiaries of the British Isles. 3 vols.
Lond. 1848-82.
- P.S.·564I **Hind, W.** Carbonicola, Anthracomya, and Naiadites.
Lond. 1896.
- P.S.·564I — British carboniferous Lamellibranchiata. Vol. 1→
(1115:42) Lond. 1896→
- P.S.·564I **Woods, H.** Cretaceous Lamellibranchia of England.
(1117:42) Vol. 1→ Lond. 1903→

56 PALÆONTOLOGY

- P.S. 5641 **Wood, S. V.** Eocene bivalves of England. Vol. 1→
(1181:42) Lond. 1861→
- P.S. 5641 **Lycett, J.** British fossil Trigoninae. With supplement.
(42) Lond. 1872-83.
- P.S. 5643 **Reed, F. R. C.** Monograph of the British ordovician and
(113:42) silurian Bellerophontacea. Pt. 1→ Lond. 1920→
- P.S. 5643 **Hudleston, W. H.** Inferior oolite Gasteropoda, being
(1162:42) Pt. 1 of British jurassic Gasteropoda. Lond. 1896.
- P.S. 5644 **Slater, I. L.** British Conulariae. Lond. 1907.
(42)
- B.M. 5645 **British Museum.** Catalogue of the fossil Cephalopoda
in the British Museum. By A. H. Foord and G. C.
Crick. Lond. 1888-97.
- B.M. 5645 ——— List of types and figured specimens of fossil Cepha-
lopoda. By G. C. Crick. Lond. 1898.
- 5645 **Smith, J. P.** Acceleration of development in fossil
Cephalopoda. Stanford Univ. 1914.
- P.S. 5645 **Foord, A. H.** Carboniferous Cephalopoda of Ireland.
(115:415) Lond. 1903.
- P.S. 5645 **Sharpe, D.** Fossil remains of Mollusca found in the
(117:42) chalk of England. Cephalopoda. Lond. 1909.
- P.S. 5645 **Edwards, F. E., and Wood, S. V.** Eocene Cephalo-
(1181:42) poda and univalves of England. Vol. 1→
Lond. 1849→
- 5645(42) **Blake, J. F.** Monograph of the British fossil Cephalo-
poda. Pt. 1. Lond. 1882.
- P.S. 56453 **Buckman, S. S.** Ammonites of "Inferior oolite
(1162:42) series". Vol. 1→ Lond. 1907→
- P.S. 56453 [**Woodward, A. S.**] Illustrations of Inferior oolite
(1162:42) ammonites. Lond. 1908.
- P.S. 56453 **Wright, T.** Lias ammonites of the British Islands.
(1162:42) 2 vols. Lond. 1878-86.
- P.S. 56455 **Phillips, J.** British Belemnitidae—Jurassic.
(1162:42) Lond. 1909.

56 PALÆONTOLOGY

5647 FOSSIL POLYZOA.

- B.M. 5647 **British Museum.** Catalogue of the fossil Bryozoa in
(1162) the British Museum. Jurassic Bryozoa. By J. W.
Gregory. Lond. 1896.
- B.M. 5647 **British Museum.** Catalogue of the fossil Bryozoa in
(117) the British Museum. Cretaceous Bryozoa. By J.
W. Gregory. Vol. 1→ Lond. 1899→
- P.S. 5647 **Busk, G.** Fossil Polyzoa of the Crag. Lond. 1859.
(118)

5648 FOSSIL BRACHIOPODA.

- 5648 **Hall, J., and Clarke, J. M.** Introduction to the study
of the Brachiopoda. 2 vols. 1894-95.
- P.S. 5648 **Davidson, T.** British fossil Brachiopoda. 6 vols.
(42) Lond. 1851-86.

5653 FOSSIL CRUSTACEA.

- B.M. 5653 **British Museum.** Catalogue of British fossil Crustacea.
(42) By H. Woodward. Lond. 1877.
- P.S. 56531 **Jones, T. R., and Hinde, G. J.** Cretaceous Entomo-
(117:42) straca of England and Ireland. Lond. 1890.
- P.S. 56531 **Jones, T. R.** Entomostraca of the cretaceous forma-
(117:42) tion of England. (Supplement.) Lond. 1849-(1890).
- P.S. 56531 **Jones, T. R., and Sherborn, C. D.** Tertiary Ento-
(118:42) mostraca of England. 2 pts. Lond. 1856-89.
- P.S. 56531 **Brady, G. S., and others.** Post-tertiary Entomostraca
(119:41) of Scotland, including species from England and
Ireland. Lond. 1874.
- P.S. 56532 **Jones, T. R.** Fossil Estheriæ. Lond. 1862.
- P.S. 56532 **Jones, T. R., and Woodward, H.** British palæozoic
(112:42) Phyllopoda. Lond. 1899.
- P.S. 56533 **Jones, T. R., and others.** British fossil bivalved Ento-
(115:42) mostraca from the carboniferous formations. Pt. 1→
Lond. 1884→
- P.S. 56535 **Darwin, C.** Fossil Balanidæ and Vernicidæ of Great
(42) Britain. Lond. 1854.
- P.S. 56535 — Fossil Lepadidæ, or pedunculated cirripedes of
(42) Great Britain. Lond. 1851.
- P.S. 56536 **Bell, T.** Fossil malacostracous Crustacea of Great
(42) Britain. Pt. 1/2→ Lond. 1913→

·56 PALÆONTOLOGY

P.S.·565391 **Woodward, H.** British fossil Crustacea belonging to
(42) the order Merostomata. Lond. 1878.

P.S.·565393 **Reed, F. R. C.** Lower palæozoic trilobites of the
(112:4142) Girvan district, Ayrshire. (Supplement.)
Lond. 1906-(1914).

P.S.·565393 **Salter, J. W.** British trilobites from the Cambrian,
(112:42) Silurian, and Devonian formation. Lond. 1883.

P.S.·565393 **Woodward, H.** British carboniferous trilobites.
(115:42) Lond. 1884.

·5654 FOSSIL ARACHNIDA.

P.S.·5654 **Pocock, R. I.** Terrestrial carboniferous Arachnida.
(115:42) Lond. 1911.

·566 FOSSIL VERTEBRATES.

·566 **Lankester, Sir E. R.** Extinct animals. Lond. 1906.

·566 **Pelly, S. A.** Glossary and notes on vertebrate palae-
ontology. Lond. [1918].

·566 **Woodward, A. S.** Outlines of vertebrate palæontology.
Camb. 1898.

·566 **Case, E. C.** Environment of vertebrate life in the late
(112:7) Paleozoic in North America. Wash. 1919.

·566 ——— Permo-carboniferous red beds of North America
(115:73) and their vertebrate fauna. Wash. 1915.

·566 **Case, E. C., and others.** Permo-carboniferous verte-
(115:789) brates from New Mexico. Wash. 1913.

·566(42) **Woodward, A. S., and Sherborn, C. D.** Catalogue of
British fossil Vertebrata. Lond. 1890.

·566:596 **Jaekel, O.** Die Wirbeltiere, eine Übersicht über die
fossilen und lebenden Formen. Berl. 1911.

·567 FOSSIL FISHES.

B.M.·567 **British Museum.** Catalogue of fossil fishes. By A. S.
Woodward. Pt. 1→ Lond. 1889→

P.S.·567 **Lankester, Sir E. R., and Traquair, R. H.** Fishes of
(114:42) the Old red sandstone of Britain. Lond. 1914.

·567 **Case, E. C.** Revision of the Amphibia and Pisces of
(115:7) the Permian of North America. Wash. 1911.

·56 PALÆONTOLOGY

- P.S.·567 **Woodward, A. S.** Fossil fishes of the English chalk.
(117:42) Lond. 1912.
- P.S.·5674 **Miall, L. C.** The Sirenoid ganoids. Lond. 1907.
- P.S.·5674 **Traquair, R. H.** Ganoid fishes of the British carboni-
(115:42) ferous formations. Pt. 1—Palæoniscidæ.
Lond. 1914.

·5676 FOSSIL AMPHIBIA.

- 5676 **Moodie, R. L.** Coal measures Amphibia of North
(115:7) America. Wash. 1916.

·5681 FOSSIL REPTILES.

- B.M.·5681 **British Museum.** Catalogue of the fossil Reptilia and
Amphibia. By R. Lydekker. 4 vols.
Lond. 1888-90.
- 5681 **Seeley, H. G.** Dragons of the air: an account of
extinct flying reptiles. Lond. 1901.
- 5681 **Case, E. C.** Pelycosauria of North America.
(115:7) Wash. 1907.
- P.S.·5681 **Owen, Sir R.** Fossil Reptilia of the mesozoic formations.
(116) Lond. 1889.
- P.S.·5681 — Fossil Reptilia of the liassic formations.
(1162) Lond. 1881.
- P.S.·5681 — Reptilia of the Kimmeridge clay and Portland stone.
(1162) Lond. 1889.
- P.S.·5681 — Fossil Reptilia of the cretaceous formations.
(117) Lond. 1864.
- P.S.·5681 — Fossil Reptilia of the Wealden and Purbeck forma-
(117) tions. With 9 supplements. 2 vols. Lond. 1853-89.
- P.S.·5681 **Owen, Sir R., and Bell, T.** Fossil Reptilia of the
(1181) London clay. Vols. 1, 2, pt. 1. Lond. 1858-80.
- B.M.·5681 **Owen, Sir R.** Catalogue of the fossil Reptilia of South
(68) Africa. Lond. 1876.
- 5681(7) **Case, E. C.** Cotylosauria of North America.
Wash. 1911.
- 56813(7) **Hay, O. P.** Fossil turtles of North America.
Wash. 1908.

·56 PALÆONTOLOGY

·5682 FOSSIL BIRDS.

- B.M.·5682 **British Museum.** Catalogue of fossil birds. By R. Lydekker. Lond. 1891.

·569 FOSSIL MAMMALS.

- B.M.·569 **British Museum.** Catalogue of the fossil Mammalia. By R. Lydekker. 5 vols. Lond. 1885-87.
- B.M.·569 ——— Guide to the fossil remains of man. Lond. 1915.
- P.S.·569 **Owen, Sir R.** Fossil Mammalia of the mesozoic formations. (1116) Lond. 1871.
- P.S.·569 **Dawkins, W. B., and Sanford, W. A.** British pleistocene Mammalia. Vol. 1→ Lond. 1872→
- 569(7:8) **Scott, W. B.** History of land mammals in the Western hemisphere. New York 1913.
- P.S.·5695 **Owen, Sir R.** British fossil Cetacea from the Red Crag. (1183:42) Lond. 1889.
- 5696 **Herz, O.** Berichte des Leiters der von der kaiserlichen Akademie der Wissenschaften zur Ausgrabung eines Mammuthkadavers. St. Pétersbourg, 1902.
- P.S.·56961 **Adams, A. L.** British fossil elephants. (42) Lond. 1881.

·57· BIOLOGY.

- 5701 **Brooks, W. K.** Foundations of zoology. New York 1899.
- 5701 **Driesch, H.** Science and philosophy of the organism. 2 vols. Abd. 1908-09.
- 5701 — Der Vitalismus als Geschichte und als Lehre. Leip. 1905.
- 5701 **Haeckel, E.** Wonders of life. Lond. 1904.
- 5701 **Hertwig, O.** Biological problem of to-day. Lond. 1896.
- 5701 **Johnstone, J.** The Philosophy of biology. Camb. 1914.
- 5701 **Massart, J.** Éléments de biologie générale et de botanique. Vol. 1→ Brux. 1920→
- 1928 **Spencer, H.** Principles of biology. 2 vols. Lond. 1898-99.
- 5701 **Thomson, J. A.** The Bible of nature. Edin. 1908.
- 5701 — The Wonder of life. Lond. [1915].
- 5702 **Calkins, G. N.** Biology. New York [1914].
- 5702 **Mitchell, P. C.** Outlines of biology. Lond. 1902.
- 5702 **Parker, T. J.** Elementary biology. Lond. 1891.
- 5702 **Wells, H. G.** Text-book of biology. 2 pts. Lond. [1892-93].
- 5704 **Abbott, C. C.** Travels in a tree-top. Lond. 1894.
- 5704 **Dendy, A.** Animal life and human progress. Ed. A. D. Lond. 1919.
- 5704 **Driesch, H.** Analytische Theorie der organischen Entwicklung. Leip. 1894.
- 5704 — Die Biologie als selbständige Grundwissenschaft. Leip. 1893.
- 5704 — Die Lokalisation morphogenetischer Vorgänge. Leip. 1899.

·57 BIOLOGY

- 5704 **Driesch, H.** Naturbegriffe und Natururteile.
Leip. 1904.
- 5704 ——— Die Organischen Regulationen. Leip. 1901.
- 5704 ——— Die Seele als elementarer Naturfaktor. Leip. 1903.
- 5704 **Loeb, J.** The Mechanistic conception of life.
Chicago [1912].
- 5704 **Metchnikoff, É.** The Nature of man. Lond. [1916].
- 5704 **Miall, L. C.** House, garden, and field. Lond. 1904.
- 5704 ——— Round the year. Lond. 1896.
- 5704 **Rennie, J.** Aims and methods of nature study.
Lond. 1910.
- 5704 **Thomson, J. A.** Natural history of the year.
Lond. [1901].
- 5704 ——— Secrets of animal life. Lond. 1919.
- 20826 ——— The System of animate nature. 2 vols.
Gif. S. 9 Lond. 1920.

·5705 PERIODICALS.

- 5705 A.S. **Annales des sciences naturelles.** Ser. I., 30 vols.;
Ser. III., 20 vols.; Ser. IV., vols. 1-12. [*See also*
·5805 and ·5905.] Paris 1824-59.
- 5705 A. **Annals and magazine of natural history.**
Magazine of natural history. Ser. I., 9 vols.; Ser.
II., vols. 1-2. Lond. 1829-38
Magazine of zoology and botany. 2 vols.
Edin. 1837-38.
Annals and magazine of natural history. Ser. I.-VIII.;
IX., vol. 1→ Lond. 1838→
- 5705 A.B. **Année biologique.** Vol. 1→ Paris 1897→
- 5705 A.I. **Archives italiennes de biologie.** Vols. 49-58.
Genova, Pisa 1908-12.
- 5705 B.C. **Biologisches Zentralblatt.** Vol. 1→ Erlangen 1881→
- 5705 B. **Biometrika.** Vol. 1→ Camb. 1901→
- 5705 I.N. **Irish naturalist.** Vol. 3-8, 22→ Dubl. 1894→

·57 BIOLOGY

·5705 E.B. **Journal of zoological research.**

Journal of economic biology. 10 vols.

Lond. 1906-15.

Journal of zoological research. 3 vols.

Lond. 1916-18.

·5705 Na. **Naturalist.** 1886→

Lond. 1886→

·5705 S.P. **Science progress in the 20th century.** Vol. 1→

Lond. 1907→

·5705 V. **Vasculum.** Vol. 1→

Sunderland 1915→

·5705 Z. **Zeitschrift für Biologie.** Vol. 22→

Leip. 1886→

·5705 **Annals of Scottish natural history.**

(41) A.S. Scottish naturalist. Vols. 1-11. Perth 1872-91.

Annals of Scottish natural history. 20 vols.

Edin. [1892-1911].

[See also ·5905(41) S.N.]

·5706 SOCIETIES.

·5706 **Drapers' Company research memoirs.** Biometric

D.C. 1 series. 1→

Lond. 1904→

·5706 ——— **Studies in national deterioration.** 2→

D.C. 2

Lond. 1907→

·5706 **Orkney natural history society.** Orcadian papers.

(4112) N.S. 1887-1904.

Stromness 1905.

·5706 **Aberdeen working men's natural history and**

(4125) W.M. **scientific society.** Trans. Vol. 1→ [Abd. 1906]→

·5706 **Perthshire society of natural science.** Proc. 1880/81-

(4132) P. 1885/86.

Perth 1886.

—— Proc. [N.S.]. Vol. 1→

Perth 1893→

·5706 ——— **Trans.** Vol. 1→

Perth 1893→

(4132) T.

·5706 **Natural history and archeological society (Stirling**

(4136) S.N. **Field club).** Trans. 1878/79, 1880 81-1892/93,

1894/95→

Stirling 1881→

·5706 **Buteshire natural history society.** Trans. Vol. 1→

(4139) B.N.

Rothesay 1908→

·5706 **Paisley naturalists' society.** Trans. Vol. 1→

(4141) P.N.

Paisley 1912→

- 5706 **Andersonian naturalists' society.** Annals. [Vol. 1]→
(4143) A.N. Glasg. 1893→
- 5706 **Natural history society of Glasgow.** Proc. [Ser. I.],
(4143) N.H. 5 vols. Glasg. 1869-84.
— Proc. and Trans. Ser. II., 8 vols. Glasg. 1887-1911.
— Journal: The Glasgow naturalist. Vol. 1→
Glasg. 1909→
- 5706 **Edinburgh field naturalists' and microscopical**
(4144) E.F. **society.** Trans. 1881→ Vol. 1→ [Edin.] 1886→
- 5706 **Physical society of Edinburgh, Royal.** Proc. Vol.
(4144) P. 2→ Edin. 1863→
- 5706 **Berwickshire naturalists' club.** History. Vol. 5→
(4145) Alnwick 1868→
- 5706 **Dumfriesshire and Galloway natural history and**
(4148) **antiquarian society.** Trans. and journal of proc.
1883/84→ Dumfries 1887→
- 5706 **Natural history society of Northumberland, Dur-**
(4282) **ham, and Newcastle-upon-Tyne.**
Natural history society of Northumberland, Durham,
and Newcastle-upon-Tyne. Trans. Vol. 1.
Newcastle 1831.
Tyneside naturalists' field club. Trans. 1846/50-
1863/64. Vols. 1-6.
Newcastle-upon-Tyne 1850-64.
Natural history trans. of Northumberland and Dur-
ham. 1865/7-[1902]. Vols. 1-15.
Lond. 1867-1913.
Natural history society of Northumberland, Dur-
ham, and Newcastle-upon-Tyne. Trans. N.S.
[1903]→. Vol. 1→ Lond. 1907→
- 5706 **Naturwissenschaftlicher Verein zu Bremen.** Ab-
(4352) N.V. handlungen. Vol. 4→. (Jahresbericht 9→)
Bremen 1875→

57 BIOLOGY

- 5063 **Akademie der Wissenschaften [zu Wien]:** math.
 naturw. Klasse. Sitzungsab. Abt. I. (Biologie.)
 Vols. 43-64. Wien 1861-1871.
 5706 ——— Abt. I. Vol. 65→ Wien 1872→
 (436) s.
 5706 **Zoologisch-botanische (Verein) Gesellschaft in Wien.**
 (436) z.B. Verhandlungen. Vol. 1-3, 5→ Wien 1852→
 5706 **Naturforschender Verein in Brünn.** Verhandlungen.
 (4372) n.v. Vols. 1-13. Brünn 1863-75.
 5706 **Musée du Congo.** Annales. Ethnographie et anthro-
 (493) m. pologie. Ser. I.→ Brux. 1898→
 5706 **Asiatic society of Bengal.** Journal. Pt. 2—Physical
 (541) science. Vol. 35→ Calcutta 1867→
 ——— Pt. 3—Anthropology. Vol. 62-63, 65, 67→
 Calcutta 1896→
 5706 **Carnegie Institution—Department of marine biology.**
 (73) c.i. Papers. Vol. 1→ Wash. 1908→
 5706 **Academy of natural sciences of Philadelphia.** Proc.
 (748) 1871→ Philad. 1871→
 5706 **Princeton University.** Contributions from biological
 (749) laboratories. Vol. 3→ Princeton 1912→

•5707-5709.

- *5707 **Huxley, T. H.** Course of practical instruction in elementary biology. By T. H. Huxley, assisted by H. N. Martin. Lond. 1875.
- *57081 **Vries, H. de.** Opera e periodicis collata. · Vol. 1→
Utrecht 1918→
- *57081 **Whitman, C. O.** Posthumous works. 3 vols.
Wash. 1919.
- *57082 **Bayliss, W. M., and others.** Life and its maintenance.
Lond. 1919.
- *57082 **Société de biologie.** Cinquantenaire. Volume jubilaire.
Paris 1899.
- *57082 **Ziegler, H. E.** Natur und Staat: Beiträge zur naturwissenschaftlichen Gesellschaftslehre. Hrsg. H. E. Z., etc. Vol. 1→
Jena 1903→

57 BIOLOGY

- 570821 **MONOGRAPHS ON EXPERIMENTAL BIOLOGY.**
 Mon. Philad. [1918]→
1. **Loeb, J.** Forced movements, tropisms, and animal conduct. [1918.]
 2. **Parker, G. H.** The Elementary nervous system. [1919.]
 3. **Morgan, T. H.** The Physical basis of heredity. [1919.]
 4. **East, E. M., and Jones, D. F.** Inbreeding and outbreeding. [1919.]
 5. **Harvey, E. N.** The Nature of animal light. [1920.]
- 57084 **Howes, G. B.** Atlas of practical elementary biology.
 Lond. 1885.
- 5709 **Thomson, J. A.** Science of life: an outline of the history of biology. Lond.
- 016:57 **Royal Society.** International catalogue of scientific literature. Biology. [1901→] Lond. 1903→
- 57092 **Bompas, G. C.** Life of Frank Buckland. Lond.
- B.M. 57092 **British Museum.** Memorials of Charles Darwin.
 Lond. 1909.
- 57092 **Dall, W. H.** Spencer Fullerton Baird, a biography.
 Philad. 1915.
- 57092 **Linnean society of London.** Darwin-Wallace celebration, 1908. Lond. 1908.
- 57092 **Pearson, K.** Life, letters and labours of Francis Galton.
 Vol. 1→ Camb. 1914→
- 57092 **Seward, A. C.** Darwin and modern science, essays.
 Ed. A. C. S. Camb. 1909.
- 57(26)06 **Liverpool marine biology committee.** Memoirs. 1→
 L.M. Liverpool 1899→
- 57(26)06 **Scottish marine biological association.** Report.
 S.M. 1899→ Glasg. 1900→
- 57(28) **Ward, H. B., and Whipple, G. C.** Fresh-water biology.
 New York 1917.
- 57:3 **Thomson, J. A.** Sociological appeal to biology. 1906.
- 57:5446 **Macmunn, C. A.** Spectrum analysis applied to biology and medicine. Lond. 1914.
- 57:55156 **Thomson, J. A.** Biology of the seasons. Lond. 1911.

·57 BIOLOGY

- 57 : 61 **Roberts, M.** Warfare in the human body.
Lond. [1920].
- f. ·57 : 7 **Haeckel, E.** Kunstformen der Natur. Leip. 1899-1904.

·571 ANTHROPOLOGY—PREHISTORIC.

- 571 **Avebury, Sir J. Lubbock, 1st baron.** Prehistoric times.
Lond. 1890.
- 571 **Dawson, Sir J. W.** Fossil men and their modern
representatives. Lond. 1888.
- 571 **Joly, N.** Man before metals. Lond. 1883.
- 571 **Keith, A.** Antiquity of man. Lond. 1915.
- 571 **Lyell, Sir C.** Geological evidences of the antiquity of
man. Lond. 1873.
- 571 **Nadaillac, J. F. A., Marquis de.** Les Premiers hommes
et les temps préhistoriques. 2 vols. Paris 1881.
- 571 **Sollas, W. J.** Ancient hunters and their modern re-
presentatives. Lond. 1911.
- 57106(41) **Society of antiquaries of Scotland.** Proc. N.S.
A.P. Vol. 12→ Edin. 1890→
- 571(119) **Wright, G. F.** Man and the glacial period.
Lond. 1892.
- 571(1231) **Munro, R.** Palæolithic man and Terramara settle-
ments in Europe. Edin. 1912.
- 571(4) **Geikie, J.** Antiquity of man in Europe. Edin. 1914.
- 571(42) **Dawkins, W. B.** Early man in Britain. Lond. 1880.
- 571(42) **Windle, B. C. A.** Remains of the prehistoric age in
England. Lond. 1904.
- 571(5) **Pumpelly, R.** Explorations in Turkestan—expedition
of 1904. 2 vols. Wash. 1908.
- 571(54) **Madras Government museum.** Foote collection of
Indian prehistoric and protohistoric antiquities.
Madras 1916.
- 57114(54) **Logan, A. C.** Old chipped stones of India.
Calcutta 1906.
- 57125(68) **Johnson, J. P.** Stone implements of South Africa.
Lond. 1907.

·57 BIOLOGY

- 57155(42) **Abercromby, J.** Bronze age pottery of Great Britain and Ireland. 2 vols. Oxf. 1912.
- 5717 **Balch, E. S., and E. M.** Art and man. Philad. 1918.
- 5717 **Reinach, S.** Répertoire de l'art quaternaire. Paris 1913.
- 5717 **Spearing, H. G.** The Childhood of art; or, The ascent of man. Lond. 1912.
- 5718(4) **Gould, S. Baring-.** Cliff castles and cave dwellings of Europe. Lond. 1911.

·572 ANTHROPOLOGY—ETHNOLOGIC.

- 572 **Boas, F.** Changes in bodily form of descendants of immigrants. New York 1912.
- 572 **Deniker, J.** Races of man : an outline of anthropology and ethnography. Lond. 1900.
- 572 **Frobenius, L.** The Childhood of man. Lond. 1909.
- 572 **Haddon, A. C.** Study of man. Lond. 1898.
- 572 **Keane, A. H.** Ethnology. Camb. 1896.
- 572 ——— Man, past and present. Camb. 1920.
- 572 **Keith, A.** Ancient types of man. Lond. 1911.
- 572 **Kraemer, H.** Der Mensch und die Erde. Hrsg. H. K. Vol. 1→ Berl. [1906]→
- 572 **Martin, R.** Lehrbuch der Anthropologie. Jena 1914.
- 572 **Nielson, Y.** Universitetets ethnografiske Samlinger, 1857-1907. Christiania 1907.
- 572 **Quatrefages, A. de.** The Human species. Lond. 1879.
- 572 **Ratzel, F.** History of mankind. 3 vols. Lond. 1896-98.
- 572 **Reclus, É.** Primitive folk, studies in comparative ethnology. Lond. [1891].
- 572 **Tylor, E. B.** Anthropology. Lond. 1881.
- 57204 **Duckworth, W. L. H.** Studies from the Anthropological laboratory, the Anatomy school, Cambridge. Camb. 1904.
- 57204 **Rivers, W. H. R., and others.** Present condition and future needs of the science of anthropology. Wash. 1913.

- 57205 A. **Anthropologie, L'.**
Revue d'anthropologie. Ser. III., 4 vols.
Paris [1886-89].
L'Anthropologie. Vol. 1→ Paris 1890→
- 57205 A.A. **Archiv für Anthropologie.** Vol. 17→
Braunsch. 1888→
- 57205 M. **Man: a monthly record of anthropological science.**
Vol. 1→ Lond. [1901]→
- 57206 A.I. **Anthropological Institute of Great Britain and Ireland.** Journal. Vol. 1→ Lond. 1872→
- 57206 H.T. **Henderson Trust.** Report. Vol. 1→ Edin. 1905→
- 57206(7) B. **Smithsonian Institution—Bureau of ethnology.**
Bulletin 1→ Wash. 1887→
- 57206(7) R. ——— Report 1→ Wash. 1881→
- 57208 **Tylor, E. B.** Anthropological essays presented to him.
Oxf. 1907.
- 572(∞) **Fishberg, M.** The Jews, a study of race. Lond. 1911.
- 572(32) **Smith, G. E.** Ancient Egyptians. Lond. 1911.
- 572(4) **Ihering, R. von.** Evolution of the Aryan. Lond. 1897.
- 572(4) **Ripley, W. Z.** Races of Europe. Lond. 1900.
- 572(4) **Sergi, G.** The Mediterranean race, a study of the origin of European peoples. Lond. 1901.
- 572(4) **Taylor, I.** Origin of the Aryans. Lond. [1889].
- f. 572(52) **MacRitchie, D.** The Aïnos. Leiden 1892.
- 572(54) **Crooke, W.** Natives of Northern India. Lond. 1907.
- 572(54) **Russell, R. V., and Lāl, Rai Bahadur Hira.** Tribes and castes of Central Provinces. 4 vols. Lond. 1916.
- 572(54) **Thurston, E.** Castes and tribes of S. India. 7 vols.
Madras 1909.
- 572(59) **Hagen, B.** Typical heads and faces of Eastern Asiatic and Melanesian peoples. Stuttg. 1907.
- 572(595) **Skeat, W. W., and Blagden, C. O.** Pagan races of the Malay Peninsula. 2 vols. Lond. 1906.
- 572(6) **Sutton, J. Bland=.** Man and beast in Eastern Ethiopia.
Lond. 1911.

·57 BIOLOGY

- 572(669) **Leonard, A. G.** The Lower Niger and its tribes.
Lond. 1906.
- 572(669) **Talbot, D. A.** Woman's mysteries of a primitive
people. Lond. 1916.
- 572(678) **Weule, K.** Native life in East Africa. Lond. 1909.
- 572(68) **Stow, G. W.** Native races of South Africa. Ed. G. M.
Theal. Lond. 1905.
- 572(68) **Theal, G. M.** Ethnography and condition of South
Africa before A.D. 1505. Lond. 1919.
- 572(718) **Howley, J. P.** The Beothucks or Red Indians, the
aboriginal inhabitants of Newfoundland.
Camb. 1915.
- 572(911) **Hose, C., and McDougall, W.** Pagan tribes of Borneo.
2 vols. Lond. 1912.
- 572 **Brown, G.** Melanesians and Polynesians.
(93:96) Lond. 1910.
- 572(933) **Hadfield, E.** Among the natives of the Loyalty group.
Lond. 1920.
- 572(94) **Howitt, A. W.** Native tribes of South-East Australia.
Lond. 1904.
- 572(94) **Spencer, B.** Native tribes of Northern territory of
Australia. Lond. 1914.
- 572(94) **Spencer, B., and Gillen, F. J.** Northern tribes of
Central Australia. Lond. 1904.
- 572(94) **Thomas, N. W.** Natives of Australia. Lond. 1906.
- 572(943) **Banfield, E. J.** Tropic days. Lond. [1918].
- 572(95) **Cambridge Anthropological expedition.** Reports of
the Cambridge anthropological expedition to Torres
Straits. Vol. 3→ Camb. 1904→
- 572(95) **Newton, H.** In far New Guinea. Lond. 1914.
- 572(95) **Seligmann, C. G.** Melanesians of British New Guinea.
Camb. 1910.
- 572(98) **Rasmussen, K.** People of the Polar north. Ed. G.
Herring. Lond. 1908.

·573 NATURAL HISTORY OF MAN.

- B.M. ·573 **British Museum.** Guide to specimens illustrating
races of mankind. Lond. 1912.
- 573 **Jones, F. W.** Arboreal man. Lond. 1916.
- 573 **Leche, W.** Der Mensch. Jena 1911.
- 573 **MacDonald, A.** Plan for study of man. Wash. 1902.
- 573 **Ploss, H.** Das Weib in der Natur- und Völkerkunde.
Hrsg. M. Bartels. 2 vols. Leip. 1905.
- 573(42) **Macnamara, N. C.** Origin of British people. Lond. 1900.
- 573¹ **Huxley, T. H.** Evidence as to man's place in nature.
Lond. 1863.
- 573² **Schwalbe, G.** Studien zur Vorgeschichte des Mens-
chen. Stuttg. 1906.
- 5734 **Ribbert, H.** Die Bedeutung der Krankheiten für die
Entwicklung der Menschheit. Bonn 1912.
- 5735(4¹) **Tocher, J. F.** Pigmentation survey of school children
in Scotland. Abd. 1908.
- 5736 **Bertillon, A.** Identification anthropométrique. In-
structions signalétiques. Melun 1893.
- 5736 **Dreyer, G., and Hanson, G. F.** The Assessment of
physical fitness. Lond. 1920.
- 5736 **Galton, F.** Finger prints. Lond. 1892.
- 5736 **Roberts, C.** Manual of anthropometry. Lond. 1878.
- f. ·5737 **Indian Museum.** Craniological data from the Indian
Museum, Calcutta. Calcutta 1909.
- f. ·5737 **Davis, J. B., and Thurnam, J.** Crania Britannica.
(42) 2 vols. Lond. 1865.
- f. ·5739 **Hirst, B. C., and Piersol, G. A.** Human monstrosities.
3 pts. Edin. 1892-93.
- 5739 **Jansen, M.** Achondroplasia, its nature and its cause.
Lond. 1912.
- 5739 **Mall, F. P.** Causes underlying the origin of human
monsters. Philad. 1908.
- 5739 **Mohr, O. L., and Wriedt, C.** A New type of hereditary
brachyphalangy in man. Wash. 1919.

SPECIAL BIOLOGY.

575 EVOLUTION.

- 575 **Bergson, H.** Creative evolution. Lond. 1911.
- 575 **Butler, S.** Evolution, old and new. Lond. 1911.
- 575 — Life and habit. Lond. 1910.
- 575 **Darwin, C.** Descent of man. 2 vols. Lond. 1888.
- 575 — Origin of species. Lond. 1873.
- 575 **Dewar, D., and Finn, F.** Making of species.
Lond. 1909.
- 575 **Haeckel, E.** Evolution of man. 2 vols. Lond. 1905.
- 575 — History of creation. 2 vols. Lond. 1883.
- 575 — Last words on evolution. Lond. 1906.
- 575 — Riddle of the universe. Lond. 1900.
- 575 **Headley, F. W.** Life and evolution. Lond. 1906.
- 575 **Lock, R. H.** Recent progress in the study of variation,
heredity and evolution. Lond. 1906.
- 575 **Lotsy, J. P.** Evolution by means of hybridization.
The Hague 1916.
- 575 — Vorlesungen über Deszendenztheorien mit be-
sonderer Berücksichtigung der botanischen Seite
der Frage. 2 vols. Jena 1906-08.
- 575 **Lull, R. S.** Organic evolution. New York 1917.
- 575 **Lutz, F. E.** Experiments with *Drosophila ampelophila*
concerning evolution. Wash. 1911.
- 575 **McCabe, J.** Evolution of mind. Lond. 1910.
- 575 **Macfarlane, J. M.** Causes and course of organic
evolution. New York 1918.
- 575 **Morgan, T. H.** Critique of the theory of evolution.
Princeton 1916.
- 575 — Evolution and adaptation New York 1903.
- 575 **Osborn, H. F.** Origin and evolution of life. Lond. 1918.
- f. 575 **Pettigrew, J. B.** Design in nature. 3 vols.
Lond. 1908.

- f. 575 **Reichert, E. T., and Brown, A. P.** Differentiation and specificity of corresponding proteins and other vital substances in relation to biological classification and organic evolution. Crystallography of hemoglobins. Wash. 1909.
- 575 **Reid, G. A.** Present evolution of man. Lond. 1896.
- 575 **Robinson, L.** Wild traits in tame animals: studies in evolution. Edin. 1897.
- 575 **Romanes, G. J.** Darwin, and after Darwin. 3 vols. Lond. 1892-97.
- 575 ——— Scientific evidences of organic evolution. Lond. 1882.
- 575 **Saleeby, C. W.** Organic evolution. Lond. [1906].
- 575 **Shearman, J. N.** Natural theology of evolution. Lond. [1915].
- 575 **Thomson, J. A.** Darwinism and human life. Lond. 1909.
- 575 ——— Study of animal life. Lond. 1917.
- 575 **Vries, H. de.** Gruppenweise Artbildung. Berl. 1913.
- 575 **Weismann, A.** Evolution theory. 2 vols. Lond. 1904.
- 575 ——— Studies in the theory of descent. Lond. 1882.
- 575 **Willey, A.** Convergence in evolution. Lond. 1911.
- 575 **Wilson, A.** Chapters on evolution. Lond. 1883.
- 575○4 **Allen, G.** Vignettes from nature. Lond. 1881.
- 575○4 **Beecher, C. E.** Studies in evolution. New York 1901.
- 575○4 **Cope, E. D.** Origin of the fittest, essays on evolution. Lond. 1887.
- 575○4 **Gray, A.** Darwiniana, essays and reviews. New York 1877.
- 575○4 **Hart, D. B.** Phases of evolution and heredity. Lond. 1910.
- 575○4 **Jordan, D. S.** Foot-notes to evolution, a series of addresses. New York 1898.
- 575○4 **Poulton, E. B.** Essays on evolution. Oxf. 1908.
- 575○4 **Varigny, H. de.** Experimental evolution, lectures. Lond. 1892.

·57 BIOLOGY

- 57506 **International Eugenics congress**—1912. Problems
I.C.E. in eugenics. Lond. 1912.
- 57506 **London University**—Francis Galton laboratory for
E.L. national eugenics. Memoirs. 1→ Lond. 1907→
- 57507 **Baur, E.** Einführung in die experimentelle Verer-
bungslehre. Berl. 1911.
- 575082 **Royal society**—Evolution Committee. Reports. 1-5.
Lond. 1910.
- 57509 **Osborn, H. F.** From the Greeks to Darwin: an outline
of the development of the evolution idea;
New York 1894.
- 575092 **Packard, A. S.** Lamarck, the founder of evolution—his
life and work. New York 1901.
- 575 **Johnson, R. H.** Evolution in color-pattern of lady-
: 59576 beetles. Wash. 1910.
- 575 **Tower, W. L.** Evolution in chrysomelid beetles.
: 595763 Wash. 1906.
- 575 ——— Mechanism of evolution in Leptinotarsa:
: 595763 Wash. 1918.
- 575 : 61 **Adami, J. G.** Medical contributions to the study of
evolution. Lond. 1918.

·5751 HEREDITY.

- 5751 **Bateson, W.** Mendel's principles of heredity.
Camb. 1909.
- 5751 ——— Problems of genetics. New Haven 1913.
- 5751 **Butler, S.** Unconscious memory. Lond. 1910.
- 5751 **Castle, W. E., and others.** Heredity and eugenics.
Chicago [1912].
- 5751 **Conklin, E. G.** Heredity and environment.
Princeton 1915.
- 5751 **Correns, C., and Goldschmidt, R.** Die Vererbung und
Bestimmung des Geschlechtes. Berl. 1913.
- 5751 **Darbishire, A. D.** Breeding and the Mendelian dis-
covery. Lond. 1913.

57 BIOLOGY

- 5751 **Davenport, C. B.** Heredity in relation to eugenics.
Lond. 1912.
- 5751 **Delage, Y.** L'Hérédité, et les grands problèmes de la
biologie générale. Paris 1903.
- 5751 **Johannsen, W. L.** Elemente der exakten Erblieh-
keitslehre. Jena 1913.
- 5751 **Lucas, R. C.** Bradshaw lecture on some points in
heredity. Lond. 1912.
- 5751 **Macfie, R. C.** Heredity, evolution, and vitalism.
Bristol 1912.
- 5751 **Morgan, T. H., and others.** Mechanism of Mendelian
heredity. Lond. 1915.
- 5751 **Newman, H. H.** Biology of twins—mammals.
Chicago [1917].
- 5751 **Punnett, R. C.** Mendelism. Lond. 1919.
- 5751 **Reid, G. A.** Principles of heredity. Lond. 1906.
- 5751 **Ribot, T. A.** Heredity. Lond. 1875.
- 5751 **Romanes, G. J.** Examination of Weismannism.
Lond. 1893.
- 5751 **Thomson, J. A.** Heredity. Lond. 1908.
- 5751 **Weismann, A.** Essays upon heredity and kindred
biological problems. 2 vols. Oxf. 1891-92.
- 5751 ——— Germ-plasm, a theory of heredity. Lond. 1893.
- 5751 **Davenport, C. B.** The Feebly inhibited. Wash. 1915.
: 136
- 5751 **Hering, E.** Über das Gedächtnis als eine allgemeine
: 136 Funktion der organisierten Materie. Leip. 1905.
- 5751 **Cannon, W. A.** Studies in heredity. Wash. 1909.
: 58142
- 5751 **Morgan, T. H., and Bridges, C. B.** Sex-linked in-
: 59577 heritance in *Drosophila*. Wash. 1916.
- 5751 **Kellogg, V. L.** Inheritance in silkworms. 1→
: 59578 Stanford Univ. 1908→
- 5751 **Castle, W. E.** Heredity of coat-characters in guinea-
: 59932 pigs and rabbits. Wash. 1905.

57 BIOLOGY

- 5751 { **Castle, W. E., and Forbes, A.** Heredity of hair-
 : 59932 { length in guinea-pigs.
 { **Castle, W. E.** Origin of a polydactylous race of
 { guinea-pigs. Wash. 1906.
- 5751 **Castle, W. E., and Wright, S.** Inheritance in guinea-
 : 59932 pigs and rats. Wash. 1916.
- 5751 **Castle, W. E., and Phillips, J. C.** Piebald rats and
 : 59932 selection. Wash. 1914.
- 5751 { **Castle, W. E.** Reversion in guinea-pigs.
 : 59932 { **Little, C. C.** Inheritance of color in mice.
 { Wash. 1913.
- 5751 **Castle, W. E.** Studies of heredity in rabbits, rats, and
 : 59932 mice. Wash. 1919.
- 5751 **Detlefsen, J. A.** Genetic studies on a cavy species
 : 59932 cross. Wash. 1914.
- 5751 **McCurdy, H., and Castle, W. T.** Selection in relation
 : 59932 to coat-pigments. Wash. 1907.
- 5751 **Davenport, C. B.** Heredity of skin color in negro-
 : 61177 white crosses. Wash. 1913.
- 5751 — Inheritance in poultry. Wash. 1906.
 : 63651
- 5751 — Inheritance of characteristics in domestic fowl.
 : 63651 Wash. 1909.
- 5751 — Inheritance in canaries. Wash. 1908.
 : 6366
- 5751 **Castle, W. E.** Inheritance in rabbits. Wash. 1909.
 : 6369
- 5751 **Macdowell, E. C.** Size inheritance in rabbits.
 : 6369 Wash. 1914.
- 5751 : 92 **Davenport, C. B.** Naval officers—their heredity and
 development. Wash. 1919.

5752 VARIATION.

- 5752 **Bateson, W.** Materials for the study of variation.
 Lond. 1894.
- 5752 **Darwin, C.** Variation of animals and plants. 2 vols.
 Lond. 1868.

·57 BIOLOGY

- 5752 **Pringsheim, H.** Die Variabilität niederer Organismen.
Berl. 1910.
- 5752 **Vernon, H. M.** Variation in animals and plants.
Lond. 1903.
- 5752 **Vries, H. de.** Mutation theory. 2 vols.
Lond. 1910-11.
- 5752 ——— Species and varieties. Chicago 1905.
- 5752 **Shull, G. H.** Bursa bursa-pastoris and Bursa heegeri,
: 583123 biotypes and hybrids. Wash. 1909.
- 5752 **Stout, A. B.** Establishment of varieties in Coleus.
: 583891 Wash. 1915.
- 5752 **Pearl, R.** Variation in Ceratophyllum. Wash. 1907.
: 583987
- 5752 **Crampton, H. E.** Studies on the variation, distribu-
: 5943 tion, and evolution of the genus Partula. The
species inhabiting Tahiti. Wash. 1916.
- 5752 **Lutz, F. E.** Variations of certain characters of Gryllus.
: 59572 Wash. 1908.
- 5752 **Pearl R., and Clawson, A. B.** Variation in the cray-
: 597 fish. Wash. 1907.

·5753 ENVIRONMENT.

- 5753 **Henderson, L. J.** Fitness of the environment.
New York 1913.
- 5753 **Semper, K.** Natural conditions of existence as they
affect animal life. Lond. 1881.

·5754 NATURAL SELECTION.

- 5754 **Coe, C. C.** Nature *versus* natural selection. Lond. 1895.
- 5754 **Sturtevant, A. H.** An Analysis of the effects of selec-
tion. Wash. 1918.
- 5754 **Wallace, A. R.** Darwinism: an exposition of the theory
of natural selection. Lond. 1889.
- 5754 ——— Natural selection and tropical nature. Lond. 1891.

·57 BIOLOGY

·5757 DEGENERATION.

- 5757 **Demoor, J., and others.** Evolution by atrophy in biology and sociology. Lond. 1899.
- 5757 **Estabrook, A. H.** The Jukes in 1915. Wash. 1916.
- 5757 **Key, W. E.** Heredity and social fitness. Wash. 1920.
- 5757 **Sutton, J. B.** Evolution and disease. Lond. 1890.
- 5757 **Talbot, E. S.** Degeneracy, its causes, signs and results. Lond. 1898.

·576 ORIGIN OF LIFE.

- 576 **Le Dantec, F.** Nature and origin of life. Lond. 1907.
- 57604 **Pasteur, L.** Die in der Atmosphäre vorhandenen organisirten Körperchen, Prüfung der Lehre von der Urzeugung. Leip. 1892.
- 576:56 **Steinmann, G.** Die Geologischen Grundlagen der Abstammungslehre. Leip. 1908.

·5763 CELLS.

- 5763 **Doncaster, L.** Introduction to the study of cytology. Camb. 1920.
- 5763 **Hertwig, O.** Allgemeine Biologie: zweite Auflage des Lehrbuchs "Die Zelle und die Gewebe". Jena 1906.
- 5763 **Labbé, A.** La Cytologie expérimentale. Paris 1898.
- 5763 **Macfadyen, A.** The Cell as the unit of life. Lond. 1908.
- 5763 **Minot, C. S.** Problem of age, growth and death. Lond. 1908.
- 5763 **Verworn, M.** Die Biogenhypothese. Jena 1903.
- 5763 **Walker, C. E.** Essentials of cytology. Lond. 1907.
- 5763 **Wilson, E. B.** The Cell in development and inheritance. New York 1911.
- 5763:58 **Laughlin, H. H.** Duration of the several mitotic stages in the dividing root-tip cells of the common onion. Wash. 1919.

·5768 BACTERIOLOGY.

- 5768 **Bary, A. de.** Lectures on bacteria. Oxf. 1887.
- 5768 **Benecke, W.** Bau und Leben der Bakterien.
Leip. 1912.
- 5768 **Duclaux, E.** Traité de microbiologie. 4 vols.
Paris 1898-1901.
- 5768 **Fischer, A.** Vorlesungen ueber Bakterien. Jena 1903.
- 5768 **Küster, E.** Kultur der Mikroorganismen. Leip. 1907.
- 5768 **Marshall, C. E.** Microbiology. Lond. [1917].
- 5768 **Molisch, H.** Die Eisenbakterien. Jena 1910.
- 5768 — Die Purpurbakterien. Jena 1907.
- 5768 **Rodet, A.** De la variabilité dans les microbes.
Paris 1894.
- 5768 **Woodhead, G. S.** Bacteria and their products.
Lond. 1891.
- 576805 **Journal of bacteriology.** Vol. 5→
J.B. Baltimore, Md. 1920→
- 5768 **Ellis, D.** Iron bacteria. Lond. [1919].
:5467
- 5768 **Smith, E. F.** Bacteria in relation to plant diseases.
:5812 Vol. 1→ Wash. 1905→
- 5768 **Miquel, P.** Les Organismes vivants de l'atmosphère.
:6147 Paris 1883.
- 5768 **Kramer, E.** Die Bakteriologie in ihren Beziehungen
:63 zur Landwirtschaft und den landw.-technischen
Gewerben. 2 pts. Wien 1890-92.
- 57681 **Bowhill, T.** Manual of bacteriological technique and
special bacteriology. Edin. 1902.
- 57681 **Eisenberg, J.** Bakteriologische Diagnostik.
Hamb. 1891.
- 57681 **Eyre, J. W. H.** Elements of bacteriological technique.
Philad. 1903.
- 57681 **Günther, C.** Einführung in das Studium der Bakteri-
ologie. Leip. 1891.

·57 BIOLOGY

- 57681 **Hueppe, F.** Die Methoden der Bakterien-Forschung.
Wiesbaden 1886.
- 57681 **Meyer, A.** Practicum der botanischen Bakterienkunde.
Jena 1903.
- 57681 **Michigan agricultural college—Laboratory of bacteriology and hygiene.** Laboratory manual in general microbiology.
New York 1916.
- 57681 **Salomonsen, C. J.** Bacteriological technology.
New York 1890.
- 57681 **Wurtz, R.** Technique bactériologique. Paris [1892].
- 57683 **Béchamp, A.** Les Microzymas. Paris 1883.
- 57683 **Chester, F. D.** Manual of determinative bacteriology.
New York 1909.
- 57683 **Fuhrmann, F.** Vorlesungen über technische Mykologie.
Jena 1913.
- 57683 **Trouessart, E. L.** Microbes, ferments and moulds.
Lond. 1886.
- 5768381 **Jungano, M., and Distaso, A.** Les Anaérobies.
Paris 1910.

·577 PROPERTIES OF LIVING MATTER.

- 577 **Child, C. M.** Senescence and rejuvenescence.
Chicago [1915].
- 577 **Loeb, J.** The Organism as a whole, from a physico-chemical viewpoint.
New York 1916.
- 577 **Windle, B. C. A.** What is life? Lond. 1908.
- 5771 **Halliburton, W. D.** Biochemistry of muscle and nerve.
Lond. 1904.
- 5773 **Du Bois-Reymond, E.** Gesammelte Abhandlungen zur allgemeinen Muskel- u. Nervenphysik. 2 vols.
Leip. 1875-77.
- 5773 **Leduc, S.** La Biologie synthétique. Paris 1912.
- 5773 **Loeb, J.** Dynamics of living matter. New York 1906.
- 5777 **Doflein, F.** Das Problem des Todes und der Unsterblichkeit bei den Pflanzen und Tieren. Jena 1919.

·57 BIOLOGY

·5778 SEX.

- 5778 **Dawson, E. R.** Causation of sex in man. Lond. 1917.
·5778 **Doncaster, L.** Determination of sex. Camb. 1914.
·5778 **Geddes, P., and Thomson, J. A.** Evolution of sex.
Lond. 1889.
·5778 **Morgan, T. H.** The Genetic and the operative evidence
relating to secondary sexual characters. Wash. 1919.
·5778 — Heredity and sex. New York 1913.

BIOLOGICAL TECHNIC.

·578 MICROSCOPY.

- 578 **Behrens, W.** Tabellen zum Gebrauch bei mikroskopischen Arbeiten. Hrsg. E. Küster. Leip. 1908.
·578 **Carpenter, W. B.** The Microscope and its revelations.
Ed. W. H. Dallinger. Lond. 1891.
·578 **Cross, M. I., and Cole, M. J.** Modern microscopy.
Lond. 1903.
·578 **Gage, S. H.** The Microscope. [Ithaca, N.Y.] 1917.
·578 **Naegeli, C., and Schwendener, S.** The Microscope in
theory and practice. Lond. 1887.
·578 **Pollack, B.** Methods of staining the nervous system.
Glasg. 1899.
·578 **Scales, F. S.** Practical microscopy. Lond. 1909.
·578 **Spiers, F. S.** The Microscope—its design, construction, and applications. Lond. 1920.
·578 **Spitta, E. J.** Microscopy. Lond. 1920.
·578 **Wright, Sir A. E.** Principles of microscopy.
Lond. 1906.
·57803 **Ehrlich, P.** Encyklopädie der mikroskopischen Technik.
Hrsg. P. E., etc. 2 vols. Berl. 1903.
·57803 **Griffith, J. W., and Henfrey, A.** Micrographic dictionary. 2 vols. Lond. 1875.
·57805 **Journal of microscopy and natural science.** Vols.
J.N. 1-2, 4, 7-16. Lond. 1882-97.

·57 BIOLOGY

- 57805 **Quarterly journal of microscopical science.** 8 vols.
J.M. Lond. 1853-60.
- 57805 ——— N.S. Vol. 1→
J.M. Lond. 1861→
- 57805 **Zeitschrift für wissenschaftliche Mikroskopie und
für mikroskopische Technik.** Vol. 25→
Z.M. Leip. 1908→
- 57806 **Microscopical society, Royal.** Monthly microscopical
R.M. journal. 18 vols. Lond. 1869-77.
—— Journal. Ser. I., vol. 2→ Lond. 1879→
- 57806 **Quekett microscopical club.** Journal. 6 vols.; Ser.
Q.M. II., vols. 1-7. Lond. [1869-1900].
- 578 **Barnard, J. E.** Practical photo-micrography.
: 778 Lond. 1911.
- 578 **Bousfield, E. C.** Guide to the science of photo-micro-
: 778 graphy. Lond. 1892.
- 578 **Hind, H. L., and Randles, W. B.** Handbook of photo-
: 778 micrography. Lond. [1913].
- 578 **Pringle, A.** Practical photo-micrography.
: 778 Lond. [1893].
- 5784 **Lee, A. B.** Microtomist's vade-mecum. Lond. 1913.
- 5786 **Beale, L. S.** How to work with the microscope.
Lond. 1880.
- 5786 **Friedlaender, C.** Mikroskopische Technik. Berl. 1894.

·579 COLLECTING.

- B.M. ·579 **British Museum.** Handbook of instructions for col-
lectors. Lond. 1902.
- 579 **Peter, K.** Die Methoden der Rekonstruktion.
Jena 1906.
- 5794 **Brown, M.** Artistic and scientific taxidermy and model-
ling. Lond. 1896.

·58 BOTANY.

- 58 **Bauhin, C.** *φυτοπιναξ*; seu, Enumeratio plantarum ab
herbariis nostro saeculo descriptarum. Basiliae [1596].
- 58 **Caesalpinus, A.** De plantis. Florentiae 1583.
- 58 **Druce, G. C.** Dillenian herbaria. Oxf. 1907.
- 58 **Engler, A.** Das Pflanzenreich. Pt. 1→ Leip. 1900→
- 58 — Syllabus der Pflanzenfamilien. Berl. 1912.
- 58 **Engler, A., and Prantl, K.** Die Natürlichen Pflanzen-
familien. Vol. 1→ Leip. 1889→
- 58 **Fuchs, L.** De historia stirpium commentarii.
Parisiis 1546.
- 58 **Gerarde, J.** The Herbal, or generall historie of plantes.
Lond. 1633.
- 58 **Kew—Royal botanic gardens.** Wild fauna and flora
of the gardens. Lond. 1906.
- 5801 **International botanical congress.** Règles interna-
tionales de la nomenclature botanique. [*French,*
English, and German.] Jena 1906.
- 5801 **Kew—Royal botanic gardens.** List of published names
of plants introduced to cultivation, 1876 to 1896.
Lond. 1900.
- 5801 **Linnaeus, C.** Philosophia botanica. Stockh. 1751.
- 5801 **Rolland, E.** Flore populaire; ou, Histoire naturelle des
· 398 plantes dans leurs rapports avec la linguistique et le
folklore. 5 vols. Paris 1896-1904.

·5802 MANUALS.

- 5802 **Bower, F. O.** Botany of the living plant. Lond. 1919.
- 5802 **Brehm, A. E.** Merveilles de la nature. Vols. 10, 11.
Les plantes. Par P. Constantin et E. d'Hubert.
Paris

58 BOTANY

·5802	Coulter, J. M., and others. Textbook of botany. 2 vols. New York [1910-11].
·5802	Gager, C. S. Fundamentals of botany. Philad. 1916.
·5802	Kerner von Marilaun, A. Natural history of plants. 2 vols. Lond. 1894-95.
·5802	Lowson, J. M. Text-book of botany. Lond. 1912.
·5802	Macgillivray, W. Manual of botany. Lond. 1853.
·5802	Sachs, J. Text-book of botany. Oxf. 1882.
·5802	Sargent, F. L. Plants and their uses, an introduction to botany. Lond. 1914.
·5802	Schenk, A. Handbuch der Botanik. Hrsg. A. S. 4 vols. Breslau 1879-90.
·5802	Strasburger, E. Text-book of botany. Lond. 1903.
·5802	Vines, S. H. Students' text-book of botany. Lond. 1895.
·5802	Wiesner, J. von. Elemente der wissenschaftlichen Botanik. 3 vols. Wien 1906-13.
f ·5803	Baillon, H. Dictionnaire de botanique. 4 vols. Paris 1876-92.
·5803	Gerth van Wijk, H. L. Dictionary of plantnames. 2 vols. The Hague 1911-16.
·5803	Jackson, B. D. Glossary of botanic terms. Lond. 1900.
·5803	Nicholson, G. Illustrated dictionary of gardening. 4 vols. and supplement. Lond. 1885-[1900].
·5803	Pritzel, G. A. Iconum botanicarum index. Berl. 1855.
·5803	Schneider, C. K. Illustriertes Handwörterbuch der Botanik. Hrsg. C. K. S. Leip. 1905.
·5804	Farmer, J. B. Practical introduction to the study of botany. Lond. 1902.
·5804	Fritch, F. E., and Salisbury, E. J. Introduction to the structure and reproduction of plants. Lond. 1920.
·5804	— Introduction to the study of plants. Lond. 1914.

58 BOTANY

5805 PERIODICALS.

- 5805 A.S. **Annales des sciences naturelles**—Botanique. Ser. IV.
Vols. 13-20; Ser. V.→ [See also 5705.]
Paris 1860→
- 5805 A.B. **Annals of botany.** Vol. 1→ Lond. 1887→
- 5805 B. **Beiträge zur Biologie der Pflanzen.** Vol. 1→
Breslau 1870→
- 5805 B.A. **Botanical abstracts.** Vol. 1→ Baltimore 1919→
- 5805 B.C. **Botanical cabinet.** Vols. 1-10. Lond. 1817-24.
- 5805 B.G. **Botanical gazette.** Vol. 11→
Crawfordsville, Ind., Chicago, etc., 1886→
- 5805 B.M. **Botanical magazine.** 53 vols. and index.
Lond. 1787-1826.
- 5805 B.Jr. **Botanische Jahrbücher.** Vol. 18→ Leip. 1894→
- 5805 B.Z. **Botanische Zeitung.** 68 vols.
Berl., Leip. 1843-1910.
- 5805 B.Jt. **Botanischer Jahresbericht.** 1873→. Vol. 1→
Berl. 1874→
- 5805 ——— Suppl. 1904-05. Leip., Berl. 1906.
B.Jt.A.
- 5805 B.Ce. **Botanisches Centralblatt.** Vol. 1→
Cassel, Jena 1880→
- 5805 B.Ce. ——— Beihefte. Vol. 1→ Cassel, Dresden 1891→
- 5805 **Companion to the Botanical magazine.** By W. J.
B.M.C. Hooker. 2 vols. Lond. 1835-36.
- 5805 F. **Flora, oder Allgemeine botanische Zeitung.** Vol.
72-78, 80, 82→ Marburg 1889→
- 5805 F.Z. **Forstlich-naturwissenschaftliche Zeitschrift.** Vols.
1-7. München 1892-98.
- 5805 H.I. **Hooker's Icones plantarum.** Vol. 1-8, 10→
Lond. 1837→
- 5805 H. **Hooker's journal of botany.** 4 vols.
Lond. 1834-42.
- 5805 H. **Hooker's London journal of botany.** Vols. 1-2, 7.
Lond. 1842-48.

·58 BOTANY

- 5805 J.W. **Jahrbücher für wissenschaftliche Botanik.** Vol.
6→ Leip. 1868→
- 5805 J. **Journal of botany.** Vol. 1-9, 11→ Lond. 1863→
- 5805 L. **Linnea.** 43 vols. Berl. 1826-82.
- 5805 M. **Malpighia.** Vols. 6-27. Genova 1892-1916.
- 5805 N.P. **New phytologist.** Vol. 1→ Lond. 1902→
- 5805 N.G. **Nuovo giornale botanico italiano.** Ser. I., vols. 20-
25; Ser. II., vol. 1→ Firenze 1888→
- 5805 P.M. **Paxton's magazine of botany.** Vols. 2-8.
Lond. 1836-41.
- 5805 P. **Phytologist.** Ser. I., vols. 1-5 and index; Ser. II., vols.
1-6. Lond. 1842-63.
- 5805 P.R. **Progressus rei botanicae.** Vol. 1→ Jena 1907→
- 5805 R.L. **Repertorium annum literaturae botanicae.** 1872-
79. 8 vols. Harleml 1873-86.
- 5805 R. **Revue générale de botanique.** Vol. 1→
Paris 1889→
- 5805 Z.B. **Zeitschrift für Botanik.** Vol. 1→ Jena 1909→

·5806 SOCIETIES.

- 5806 I.B. **International botanical congress.** Genova, 1892.
Atti. Genova 1893.
- 5806 I.B. — Bruxelles, 1910. Actes. 2 vols. Brux. [1912].
- 5806 — Wien, 1905. Bericht. Wien 1906.
I.B.B.
- 5806 K. **Kew—Royal botanic gardens.** Reports. 1874-82.
Lond. 1875-84.
— Bulletins. 1887→ Lond. 1887→
- 5806 K.P. — Selected papers from Kew bulletin. 1→
Lond. 1906→
- 5806 — Royal botanic gardens, Kew. By W. J. Bean.
K.Bean. Lond. 1908.
- 5806 L.J. **Linnean society of London.** Journal. Botany. Vol.
1-11, 13→ Lond. 1857→
- 5806 L.P. — Proc. 1874/75→ Lond. 1875→

58 BOTANY

- 5806 L.T. **Linnean society of London.** Trans. [Ser. I.] 30 vols.
Lond. 1791-1875.
- 5806 L.T. ——— Botany. Ser. II. Vol. 1→ Lond. 1880→
- 5806 **Botanical society of Edinburgh.** Trans. Vol. 1→
(4144) Edin. 1844→
- 5806(43) **Deutsche botanische Gesellschaft.** Berichte. Vol.
1→ Berl. 1883→
- 5806 **Società botanica italiana.** Bullettino. 1892→
(45) S.B. Firenze 1892→
- 5806 **Svenska vetenskaps-akademien, K.** Arkiv för
(485) botanik. Vol. 1→ Stockh. 1904→
- 5806 **India—Botanical survey.** Records. Vol. 2→
(54) B.R. Calcutta 1903→
- 5806 **Calcutta—Royal botanic garden.** Annals. Vol. 1→
(541) Calcutta 1887→
- 5806(73) **Smithsonian Institution.** United States National
museum. National Herbarium. Contributions.
Vol. 7, 9→ Wash. 1902→
- 5806 **Missouri botanical garden.** Reports. 1→
(778) St. Louis [1890]→
- 5806 **California University publications.** Botany. Vol. 1→
(794) C.U. Berkeley 1903→
- 5806 **Rio de Janeiro—Jardin botanico.** Archivos. Vol. 1→
(8133) Rio de Janeiro 1915→
- 5806 **Buitenzorg—Jardin botanique.** Annales. [Ser. I.],
(922) 15 vols.; Ser. II., vol. 1→ Batavia, Leide 1876→
- f. 5806 **New South Wales—Botanic gardens.** Reports.
(944) 1910→ [Sydney 1911→]

5807 METHODS OF STUDY.

- 5807 **Bower, F. O., and Vines, S. H.** Course of practical
instruction in botany. Lond. 1891.
- 5807 **Candolle, A. de.** La Phytographie. Paris 1880.
- 5807 **Cavers, F.** Practical botany. Lond. 1911.
- 5807 **Ganong, W. F.** Teaching botanist. New York 1910.
- 5807 **Horwood, A. R.** Practical field botany. Lond. 1914.

·58 BOTANY

- 5807 **Kienitz-Gerloff, F.** Methodik des botanischen Unterrichts. Berl. 1904.
- f. ·5807 **McAlpine, D.** Botanical atlas. 2 vols. Edin. 1883.
- 5807 **Strasburger, E.** Handbook of practical botany. Ed. W. Hillhouse. Lond. 1887.
- 5807 **Trail, J. W. H.** Syllabus of instruction in botany. Abd. 1904.
- f. ·5807² **Willmott, E.** Warley garden in spring and summer. (42) Lond. 1909.
- 5807² **Coville, F. V., and MacDougal, D. T.** Desert botanical (764) laboratory of the Carnegie Institution. Wash. 1903.
- 5807⁴ **Vines, S. H., and Druce, G. C.** Account of the Mori- (42) sonian Herbarium. Oxf. 1914.
- f. ·5807⁴ **Koerner, A.** Die Bauten des Königlichen botanischen (4315) Gartens in Dahlem. Berl. 1910.

·5808 COLLECTIVE WORKS.

- 5808¹ **Brown, R.** Miscellaneous botanical works. 3 vols. Lond. 1866-68.
- 5808¹ **Errera, L.** Recueil d'œuvres. [3 vols.] Brux. 1908-09.
- 5808² **Ascherson, P.** Festschrift zur Feier des siebenzigsten Geburtstages des Herrn Prof. P. Ascherson. Leip. 1904.
- 5808² **OSTWALD'S KLASSIKER.** Leip. 1889→
- 5808² **Warming, E.** Biologiske Arbejder tilegnede Eug. Warming paa hans 70 Aars Fødselsdag den 3. November 1911. Kjøbenhavn 1911.

·5809 HISTORY.

- 5809 **Arber, A.** Herbals—their origin and evolution. Camb. 1912.
- 5809 **Gibson, R. J. Harvey-.** Outlines of the history of botany. Lond. 1919.
- 5809 **Green, J. R.** History of botany, 1860-1900. Oxf. 1909.

·58 BOTANY

- 5809 **Pickering, C.** Chronological history of plants.
Boston [Mass.] 1879.
- 5809 **Sachs, J.** History of botany. Oxf. 1890.
- 5809 (3) **Joret, C.** Plantes dans l'antiquité et au moyen age.
Pt. 1→ Paris 1897→
- 5809 (42) **Green, J. R.** History of botany in the United King-
dom. Lond. 1914.
- 5809 **Smith, J.** Bible plants. Lond. [1877].

: 22

·58091 BIBLIOGRAPHY.

- B.M. ·58091 **British Museum.** Books and portraits illustrating the
history of plant classification. Lond. 1906.
- 58091 **Haller, A. von.** Bibliotheca botanica. 2 vols.
Tiguri 1771-72.
- 58091 — — Index emendatus perfecit J. C. Bay.
Bernae 1908.
- 58091 **Jackson, B. D.** Guide to literature of botany.
Lond. 1891.
- 58091 **Junk, W.** Bibliographia botanica. Berl. 1909.
- 58091 **Pritzel, G. A.** Thesaurus literaturae botanicae.
Lips. 1872.
- 016 : 58 **Royal Society.** International catalogue of scientific
literature. Botany [1901→] Lond. 1902→

·58092 BIOGRAPHY.

- 58092 **Babington, C. C.** Memorials, journal, and botanical
correspondence. Camb. 1897.
- 58092 **Bower, F. O.** Joseph Dalton Hooker. Lond. 1919.
- 58092 — Sir Joseph Dalton Hooker, 1817-1911. Glasg. 1912.
- 58092 **Dudley, W. R.** Dudley memorial volume.
Stanford Univ. 1913.
- 58092 **Huxley, L.** Life and letters of Sir Joseph Dalton
Hooker: 2 vols. Lond. 1918.
- 58092 **Kronfeld, E. M.** Anton Kerner von Marilaun.
Leip. 1908.
- 58092 **Linnaeus, C.** Bref och Skrifvelser af och till Carl von
Linné. Vol. 1→ Stockh. 1907→

·58 BOTANY

- 58092 **Oliver, S. P.** Life of Philibert Commerson. Ed. G. F. S. Elliot. Lond. 1909.
- 58092 **Wilson, W. F.** David Douglas, botanist, at Hawaii. Honolulu 1919.
- 58092 **Oliver, F. W.** Makers of British botany. Camb. 1913.
(42)

·58: RELATIONAL DIVISIONS.

- 58 : 575 **Bernard, N.** Évolution des plantes. Paris 1916.
- 58 : 575 **Blaringhem, L.** Mutation et traumatismes. Paris 1908.
- 58 : 575 **Campbell, D. H.** Lectures on the evolution of plants. New York 1902.
- 58 : 575 **Coulter, J. M., and M. C.** Plant genetics. Chicago [1918].
- 58 : 575 **Lotsy, J. P.** Vorträge über botanische Stammesgeschichte. Vol. 1→ Jena 1907→
- 58 : 752 **Société française des chrysanthémistes.** Répertoire de couleurs pour aider à la détermination des couleurs des fleurs, des feuillages et des fruits. Rennes 1905.

·58I BIOLOGICAL BOTANY.

- 58I **Jones, W. N., and Rayner, M. C.** A Textbook of plant biology. Lond. [1920].
- 58I **Migula, W.** Pflanzenbiologie. Leip. 1909.
- 58I **Neger, F. W.** Biologie der Pflanzen. Stuttg. 1913.
- 58I **Scott, D. H.** Introduction to structural botany. Lond. 1897.
- 58I (2I) **Bower, F. O.** Origin of a land flora. Lond. 1908.
- f. ·58I **Beer, J. G.** Beiträge zur Morphologie und Biologie der Familie der Orchideen. Wien 1863.
- 58415

·58II PHYSIOLOGY OF PLANTS.

- 58II **Cox, L. E.** Experimental plant physiology. Lond. 1915.
- 58II **Darwin, F., and Acton, E. H.** Practical physiology of plants. Camb. 1894.

·58 BOTANY

- 5811 **Ganong, W. F.** Laboratory course in plant physiology.
New York [1908].
- 5811 **Haberlandt, G.** Physiological plant anatomy.
Lond. 1914.
- 5811 **Jost, L.** Lectures on plant physiology. Oxf. 1907.
- 5811 **Lloyd, F. E.** Physiology of stomata. Wash. 1908.
- 5811 **Molisch, H.** Pflanzenphysiologie als Theorie der
Gärtnerei. Jena 1920.
- 5811 **Němec, B.** Die Reizleitung und die reizleitenden
Strukturen bei den Pflanzen. Jena 1901.
- 5811 **Palladin, V. I.** Plant physiology. Philad. [1918].
- 5811 **Pfeffer, W.** Physiology of plants. Vol. 1→
Oxf. 1900→
- 5811 **Sachs, J. von.** Physiology of plants. Oxf. 1887.
- 5811 **Shreve, F.** Montane rain-forest. Wash. 1914.
(7292)
- 581116 **Dixon, H. H.** Transpiration and the ascent of sap in
plants. Lond. 1914.
- 581116 **Livingston, B. E.** Relation of desert plants to soil
(252) moisture and to evaporation. Wash. 1906.
- 581116 **Shreve, E. B.** Daily march of transpiration in a desert
(252) perennial. Wash. 1914.
- 58113 **Cannon, W. A.** Chlorophyll apparatus in desert
plants. Wash. 1908.
- 58113 **Darwin, C.** Insectivorous plants. Lond. 1875.
- 58113 **Hempel, J.** Effect of etherization on plant-metabolism.
København 1911.
- 58113 **Pfeiffer, T.** Der Vegetationsversuch als Hilfsmittel zur
Lösung von Fragen auf dem Gebiete der Pflanzen-
ernährung. Berl. 1918.
- 58113 **Richards, H. M.** Acidity and gas interchange in cacti.
Wash. 1915.
- f.·58113 **Richter, O.** Die Ernährung der Algen. Leip. 1911.
- 58113 **Spoehr, H. A.** The Carbohydrate economy of cacti.
Wash. 1919.

·58 BOTANY

- 58113 **Stahl, E.** Zur Biologie des Chlorophylls. Jena 1909.
- 5811323 **Wiesner, J. von.** Der Lichtgenuss der Pflanzen.
Leip. 1907.
- 58114 **Klebs, G.** Willkürliche Entwicklungsänderungen bei
Pflanzen. Jena 1903.
- 581143 **Douglass, A. E.** Climatic cycles and tree-growth.
Wash. 1919.
- 581143 **MacDougal, D. T.** Hydration and growth. Wash. 1920.
- 58115 **Bailey, L. H.** Plant-breeding. New York 1917.
- 58115 **Darwin, C.** Different forms of flowers. Lond. 1877.
- 58115 **Vries, H. de.** Plant-breeding. Lond. 1907.
- 58115 **Klebs, G.** Über künstliche Metamorphosen.
: 5773 Stuttgart. 1906.
- 58115 **Chodat, R.** Étude sur le polymorphisme des Algues.
: 5893 Genève 1909.
- 5811524 **Macdougal, D. T., and Spalding, E. S.** Water-balance
of succulent plants. Wash. 1910.
- 58116 **Darwin, C.** Effects of cross and self-fertilisation.
Lond. 1876.
- 58116 **Kerner, A.** Flowers and their unbidden guests.
Lond. 1878.
- 58116 **Knuth, P.** Handbook of flower pollination. 3 vols.
Oxf. 1906-09.
- 58116 **Müller, H.** Fertilisation of flowers. Lond. 1883.
- 58116 ——— Weitere Beobachtungen über Befruchtung der
Blumen durch Insekten. 3 pts. Berl. 1879-82.
- 58116 **Strasburger, E.** Zeitpunkt der Bestimmung des Ge-
schlechts. Jena 1909.
- 58116 **Harper, R. A.** Sexual reproduction and the organisation
: 5892 of the nucleus in certain mildews. Wash. 1905.
- 581162 **Coulter, J. M.** Evolution of sex in plants.
Chicago 1914.
- 581163 **Winkler, H.** Parthenogenesis und Apogamie im
Pflanzenreiche. Jena 1908.

- 581169 **Němec, B.** Studien über die Regeneration. Berl. 1905.
- 581171 **Czapek, F.** Oberflächenspannung der Plasmahaut von Pflanzenzellen. Jena 1911.
- 58118 **Bose, Sir J. C.** Life movements in plants. [2 vols.] Calcutta 1918-19.
- 58118 ——— Plant response as a means of physiological investigation. Lond. 1906.
- 58118 ——— Researches on irritability of plants. Lond. 1913.
- 58118 **Darwin, C.** Movements and habits of climbing plants. Lond. 1875.
- 58118 **Darwin, C., and F.** Power of movement in plants. Lond. 1880.
- 58118 **Pringsheim, E. G.** Die Reizbewegungen der Pflanzen. Berl. 1912.
- 5811833 **Haberlandt, G.** Die Lichtsinnesorgane der Laubblätter. Leip. 1905.
- 58119 **Czapek, F.** Biochemie der Pflanzen. Vol. 1→ Jena 1905→
- 58119 **Michael, H. A.** Studies in plant and organic chemistry. Camb., Mass. 1907.
- 58119 **Onslow, M. W.** Practical plant biochemistry. Camb. 1920.
- 58119 **Sohn, C. E.** Dictionary of active principles of plants. Lond. 1894.
- 58119 **Tunmann, O.** Pflanzenmikrochemie. Berl. 1913.
- 58119 **Zopf, W.** Die Flechtenstoffe. Jena 1907.
- 5811931 **Reichert, E. T.** Differentiation and specificity of starches. 2 pts. Wash. 1913.
- 5811933 **Cross, C. F., and Bevan, E. J.** Researches on cellulose. 1→, 1895/1900→ Lond. 1907→
- 5811941 **Willstätter, R., and Stoll, A.** Untersuchungen über Chlorophyll. Berl. 1913.
- 581195 **Onslow, M. W.** Anthocyanin pigments of plants. Camb. 1916.

58 BOTANY

5812 PATHOLOGY OF PLANTS.

- 5812 **Burgeff, H.** Die Wurzelpilze der Orchideen.
Jena 1909.
- 5812 **Küster, E.** Pathologische Pflanzenanatomie.
Jena 1903.
- 581205 C. **Centralblatt für Bakteriologie.** Abth. II. Pflanzen-
pathologie, etc. Vol. 1→ Jena 1895→
- 581205 Z.P. **Zeitschrift für Pflanzenkrankheiten.** Vol. 1→
Stuttg. 1891→
- 58121 **Bruck, W. F.** Plant diseases. Lond. 1912.
- 58121 **Delacroix, G.** Atlas des conférences de pathologie
végétale. Paris
- 58121 **Massee, G.** Text-book of plant diseases. Lond. 1903.
- 58121 **Sorauer, P.** Handbuch der Pflanzenkrankheiten.
2 vols. Berl. 1908-09.
- 58121 **Stevens, F. L.** Fungi which cause plant disease.
New York 1913.
- 58121 **Tubeuf, K. von.** Diseases of plants. Lond. 1897.
- 58121 **Cook, M. T.** Diseases of tropical plants. Lond. 1913.
(213)
- 58121 **Hartig, R.** Diseases of trees. Lond. 1894.
: 634
- 58121 **Ward, H. M.** Timber and some of its diseases.
: 634 Lond. 1889.
- 58121 **Petri, L.** Studi sul marciume delle radici nelle viti
: 6346 fillosserate. Roma 1907.
- 5812198 **Masters, M. T.** Vegetable teratology. Lond. 1869.
- 5812198 **Penzig, O.** Pflanzen-Teratologie. 2 vols.
Genua 1890-94.
- 5812198 **Worsdell, W. C.** Principles of plant-teratology. 2 vols.
Lond. 1915-16.
- 58122 **Darboux, G., and Houard, C.** Galles de Cynipides.
Paris 1907.
- 58122 **Gadeau de Kerville, H.** Cécidozoaires et leurs cécidies.
Paris 1901.

·58 BOTANY

- 58122 **Küster, E.** Die Gallen der Pflanzen. Leip. 1911.
- 58122 **Connold, E. T.** Plant galls of Great Britain.
(42) Lond. 1909.
- 58123 **MacDougal, D. T., and Cannon, W. A.** Parasitism
in plants. Wash. 1910.
- 58123 **Smith, E. F.** Bacterial diseases of plants.
Philad. 1920.
- 58124 **Geddoelst, L.** Les Champignons parasites de l'homme
et des animaux domestiques. Lierre 1902.

·5813 EMBRYOLOGY OF PLANTS.

- 5813 **Avebury, Sir J. Lubbock, 1st baron.** Contribution to
our knowledge of seedlings. 2 vols. Lond. 1892.
- 5813 **Guppy, H. B.** Studies in seeds and fruits. Lond. 1912.
- 5813 **Johnson, D. S.** Fruit of *Opuntia fulgida*. Wash. 1918.
- 581312 **Edgeworth, M. P.** Pollen. Lond. 1887.

·5814 MORPHOLOGY OF PLANTS.

- 5814 **Bary, A. de.** Comparative anatomy of the vegetative
organs of the phanerogams and ferns. Oxf. 1884.
- 5814 **Campbell, D. H.** The Eusporangiateae. Wash. 1911.
- 5814 **Goebel, K.** Organography of plants, especially of the
Archegoniatae and Spermatophyta. 2 vols.
Oxf. 1900-05.
- 5814 **Grew, N.** Anatomy of plants. Lond. 1682.
- 5814 **Velenovský, J.** Vergleichende Morphologie der Pflan-
zen. 4 pts. Prag 1905-13.
- 5814 **Vöchting, H.** Anatomie und Pathologie des Pflanzen-
körpers. Tübingen 1908.
- 5814 **Glück, H.** Biologische und morphologische Unter-
(28) suchungen über Wasser- und Sumpfgewächse. Pts.
1-2. Jena 1905-06.
- 5814 **Coulter, J. M., and Chamberlain, C. J.** Morphology
: 582 of spermatophytes. 2 vols. New York 1901-03.
- 5814 — Morphology of gymnosperms. Chicago [1910].
: 585

58 BOTANY

- 5814 **Campbell, D. H., and Williams, F.** Morphological
:5883 study of some members of the genus *Pallavicinia*.
Stanford Univ. 1914.
- 58145 **Church, A. H.** Relation of phyllotaxis to mechanical
laws. Lond. 1904.
- f. 58148 — Types of floral mechanism. Pt. 1→ Oxf. 1908→

·5815 HABITS OF PLANTS.

- 5815 **Cannon, W. A.** Root habits of desert plants. Wash. 1911.
 5815 **Clements, F. E.** Plant indicators: the relation of plant communities to process and practice. Wash. 1920.
 5815 ——— Research methods in ecology. Lincoln, Neb. 1905.
 5815 **Kraus, G.** Boden und Klima auf kleinstem Raum. Jena 1911.
 5815 **Schneider, C. K.** Dendrologische Winterstudien. Jena 1903.
 5815 **Warming, E.** Oecology of plants. Oxf. 1909.
 5815 **Weaver, J. E.** The Ecological relations of roots. Wash. 1919.
 581506 **British ecological society.** Journal of ecology. Vol. B.E. 1→ Camb. 1913→
 5815(28) **Mönkemeyer, W.** Die Sumpf- und Wasserpflanzen. Berl. 1897.
 5815 **Kirchner, O. von, and others.** Lebensgeschichte der : 582(4) Blütenpflanzen Mitteleuropas. Vol. 1→ Stuttg. 1908→
 581513 **Stahl, E.** Pflanzen und Schnecken. Jena 1888. : 594
 58152 **Hehn, V.** Wanderings of plants and animals from their : 63 first home. Ed. J. S. Stallybrass. Lond. 1885.
 f. 58154 **Sernander, R.** Entwurf einer Monographie der euro- : 595796 päischen Myrmekochoren. Uppsala 1906.

•5816 ECONOMICS OF PLANTS.

- *5816 **Boulger, G. S.** Uses of plants. Lond. 1889.
*5816 **Diels, L.** Ersatzstoffe aus dem Pflanzenreich.
Stuttg. 1918.

·58 BOTANY

- 5816 **Jackson, J. R.** Commercial botany of 19th century.
Lond. 1890.
- 5816 **Lalessan, J. L. de.** Les Plantes utiles des colonies
françaises. Paris 1886.
- 5816 **Reinhardt, L.** Kulturgeschichte der Nutzpflanzen.
München 1911.
- 5816 **Wiesner, J.** Die Rohstoffe des Pflanzenreiches. 2 vols.
Leip. 1900-03.
- 581603 **Smith, J.** Dictionary of popular names of the plants
which furnish the natural and acquired wants of man.
Lond. 1882.
- 016 **Jackson, B. D.** Vegetable technology: a contribution
:5816 towards a bibliography of economic botany.
Lond. 1882.
- 5816 **Hoops, J.** Waldbäume und Kulturpflanzen im ger-
(363) manischen Altertum. Strassb. 1905.
- 5816 **Watt, Sir G.** Commercial products of India.
(54) Lond. 1908.
- 5816 **[Holland, J. H.]** Useful plants of Nigeria. 2 pts.
(669) Lond. 1908-11.
- 58163 **Bentley, R., and Trimen, H.** Medicinal plants. 4 vols.
Lond. 1880.
- 58163 **Heuzé, G.** Les Plantes alimentaires. 2 vols. and atlas.
Paris [1872].
- 58165 **Cornevin, C.** Des plantes vénéneuses et des empoison-
nements qu'elles déterminent. Paris 1887.
- 58165 **Long, H. C.** Plants poisonous to live stock.
Camb. 1917.
- 58165 **Pammel, L. H.** Manual of poisonous plants, chiefly of
eastern North America. Cedar Rapids 1911.
- 58169 **Heinricher, E.** Die Aufzucht der parasitischen Samen-
pflanzen. Jena 1910.

·5818 HISTOLOGY OF PLANTS.

- 5818 **Dop, P., and Gautié, A.** Manuel de technique
botanique. Paris 1909.

·58 BOTANY

- 5818 **Jeffrey, E. C.** Anatomy of woody plants.
Chicago [1917].
- 5818 **Stevens, W. C.** Plant anatomy. Lond. [1916].
- 5818 **Tschirsch, A.** Angewandte Pflanzenanatomie. Vol. 1→
Wien 1889→
- 581807 **Penhallow, D. P.** Tables for the use of students on
vegetable histology. Boston 1882.
- 5818 **Solereder, H.** Systematic anatomy of the dicotyledons.
:583 2 vols. Oxf. 1908.
- 581822II **Porsch, O.** Der Spaltöffnungsapparat im Lichte der
Phylogenie. Jena 1905.
- 581822II **Rehfous, L.** Étude sur les stomates. Genève 1917.
- 581823 **Janssonius, H. H.** Mikrographie des Holzes der auf
(922) Java vorkommenden Baumarten. 2 vols.
Leiden 1906-08.

·5819 GEOGRAPHICAL BOTANY.

- 5819 **Baker, J. G.** Elementary lessons in botanical geo-
graphy. Lond. 1875.
- 5819 **Drude, O.** Handbuch der Pflanzengeographie.
Stuttg. 1890.
- 5819 **Graebner, P.** Lehrbuch der allgemeinen Pflanzen-
geographie. Leip. 1910.
- 5819 **Hardy, M. E.** The Geography of plants. Oxf. 1920.
- 5819 **Karsten, G., and Schenck, H.** Vegetationsbilder.
Vol. 1→ Jena 1904→
- 5819 **Schimper, A. F. W.** Plant geography upon a physio-
logical basis. Oxf. 1903.
- 5819 **Marret, L.** Icones floræ Alpinae plantarum. Pt. 1→
(234) [Paris]
- 5819 **Thompson, H. S.** Alpine plants of Europe.
(234) Lond. [1911].
- 5819 **Braun, J.** Les Cévennes méridionales. Genève 1915.
(2342)
- 5819 **Weber, J. C.** Die Alpen-Pflanzen Deutschlands und
(2343) der Schweiz. 4 vols. München 1872.

- 5819 **Arber, E. A. N.** Plant life in Alpine Switzerland.
(23435) Lond. 1910.
- 5819 **Thompson, H. S.** Sub-alpine plants. Lond. 1912.
(23435)
- 5819 **Clements, F. E.** Plant succession. Wash. 1916.
(237)
- 5819 **Shreve, F.** Vegetation of a desert mountain range.
(237) Wash. 1915.
- 5819 **Spalding, V. M.** Distribution and movements of desert
(252) plants. Wash. 1909.
- 5819 **Cannon, W. A.** Botanical features of the Algerian
(252 : 6) Sahara. Wash. 1913.
- 5819 **MacDougal, D. T.** Botanical features of North Ameri-
(252 : 7) can deserts. Wash. 1908.
- 5819(26) **Johnson, D. S., and York, H. H.** Relation of plants
to tide-levels. Wash. 1915.
- 5819(26) **Kuckuck, P.** Der Strandwanderer, die wichtigsten
Strandpflanzen, Meeresalgen und Seetiere der Nord-
und Ostsee. München 1905.
- 5819(28) **Arber, A.** Water plants. Camb. 1920.
- 5819 **Magnin, A.** Monographies botaniques de 74 lacs
(285 : 44) jurassiens, suivies de considérations générales sur la
végétation lacustres. Paris 1904.
- 5819(32) **Loret, V.** La Flore pharaonique. Paris 1892.
- f.·5819(4) **Bonnier, G.** Flore complète de France, Suisse et
Belgique. Vol. 1→ Neuchatel
- 5819(4) **Caruel, T.** Epitome florae Europae. [Fasc. 1-3.]
Florentiae [1892-97].
- 5819(4) **Hegi, G.** Illustrierte Flora von Mittel-Europa. 3 vols.
München [1906].
- 5819(4) **Hermann, F.** Flora von Deutschland und Fennoskandinavien.
Leip. 1912.
- 5819(41) **Ewing, P.** Glasgow catalogue of native and established
plants. Glasg. 1899.
- 5819(41) **Lightfoot, J.** Flora Scotica. 2 vols. Lond. 1792.
- 5819(41) **Murray, A.** Northern flora. Pt. 1. Edin. 1835.

·58 BOTANY

- 5819 **Spence, M., and Grant, J.** Flora Orcadensis.
(4112) Kirkwall 1914.
- 5819 **Craib, W. G.** Flora of Banffshire. Abd. 1912.
(4124)
- 5819 **Dickie, G.** Botanist's guide to the counties of Aberdeen,
(4125) Banff, and Kincardine. Abd. 1860.
- 5819 **Sim, J.** Botany of Scotstown Moor. Abd. 1868.
(4125)
- 5819 **Trail, J. W. H.** Flora of Buchan. Peterhead 1902.
(4125)
- 5819 **White, F. B. W.** Flora of Perthshire. Edin. 1898.
(4132)
- 5819 **Hayward, I. M., and Druce, G. C.** The Adventive
(414) flora of Tweedside. Arbroath 1919.
- 5819 **Greville, R. K.** Flora Edinensis. Edin. 1824.
(4144)
- 5819(42) **Babington, C. C.** Manual of British Botany.
Lond. 1904.
- 5819(42) **Bentham, G.** Handbook of British flora. 2 vols.
Lond. 1865.
- 5819(42) **Bonnier, G.** Name this flower. Lond. 1917.
- 5819(42) **Carter, H. G.** Genera of British plants. Camb. 1913.
- 5819(42) **Druce, G. C.** List of British plants. Oxf. 1908.
- 5819(42) **Fitch, W. H., and Smith, W. G.** Illustrations of the
British flora. Lond. 1912.
- 5819(42) **Fox, T.** How to find and name wild flowers.
Lond. [1916].
- 5819(42) **Hooker, Sir J. D.** Students' flora of the British Isles.
Lond. 1884.
- f. ·5819 **Moss, C. E.** Cambridge British flora. Vols. 2-3.
(42) Camb. 1914-20.
- 5819(42) **Reid, C.** Origin of British flora. Lond. 1899.
- 5819(42) **Skene, M.** Wild flowers. Lond. [1913].
- 5819(42) **Syme, J. T. B.** English botany; or, Coloured figures of
British plants. Figures by J. Sowerby, etc. 12 vols.
and suppl. Lond. 1863-92.

- 5819(42) **Watson, H. C.** Topographical botany. Lond. 1883.
- 5819(42) **Williams, F. N.** Prodrromus floræ Britannicæ. 1→
Brentford 1911→
- 5819 **Marquand, E. D.** Flora of Guernsey and the lesser
(4234) Channel Islands. Lond. 1901.
- 5819 **Purton, T.** Botanical description of British plants in
(424) the midland counties. 3 vols.
Stratford-on-Avon 1817-21.
- 5819 **White, J. W.** Flora of Bristol. Bristol 1912.
(4241)
- 5819 **Amphlett, J., and Rea, C.** Botany of Worcestershire.
(4247) Birmingham 1909.
- 5819 **Wheldon, J. A., and Wilson, A.** Flora of West
(4272) Lancashire. Eastbourne 1907.
- 5819(43) **Karsch, A.** Vademecum botanicum. Leip. 1894.
- 5819(43) **Thomé, O. W.** Flora von Deutschland, Österreich und
der Schweiz. Vol 1→ Gera-Untermhaus 1886→
- 5819 **Kerner von Marilaun, A.** Schedæ ad floram exsiccatam
(436) Austro-Hungaricam. 1-9. Vindobonæ 1881-1902.
- 5819(44) **Rouy, G., and Foucaud, J.** Flore de France. 14 vols.
Asnières 1893-1913.
- 5819 **Saccardo, P. A.** Cronologia della flora italiana.
(45)09 Padova 1909.
- 5819 **Coutinho, A. X. P.** Flora de Portugal. (Notas.)
(469) Paris 1913-(1914).
- 5819 **Warming, E.** Dansk Plantevækst. 2 vols.
(489) København, 1906-09.
- 5819 **Farøe Isles.** Botany of the Færøes. Copenh. 1908.
(491)
- 5819 **Christ, H.** La Flore de la Suisse. Bâle 1907.
(494)
- 5819 **Dunn, S. T., and Tutchter, W. J.** Flora of Kwangtung
(512) and Hongkong, China. Lond. 1912.
- 5819(52) **Matsumura, J.** Index plantarum Japonicarum. 3 vols.
Tokioni 1904-12

58 BOTANY

- 5819 **Hayata, B.** *Flora montana Formosæ.* Tōkyō 1908.
(529)
- 5819 — *Icones plantarum Formosanarum.* Vol. 1→
(529) Taihoku [1911]→
- 5819(54) **Hooker, Sir J. D.** *Flora of British India.* 7 vols.
London. 1875-97.
- 5819(54) **Oliver, D.** *First book of Indian botany.* London. 1869.
- 5819(54) **Prain, Sir D.** *Contributions to Indian botany.*
London. 1906.
- 5819(54) **Watt, Sir G.** *Dictionary of economic products of*
: 5816 *India.* 6 vols. Calcutta 1889-96.
- 5819 **Cooke, T.** *Flora of the Presidency of Bombay.* 2 vols.
(547) London. 1903-08.
- 5819 **Trimen, H.** *Flora of Ceylon.* Pts. 1-3. (Continued
(548) by Sir J. D. Hooker. Pts. 4-5.) Atlas.
London. 1893-1900.
- 5819 **Craib, W. G.** *Flora of Siam.* Dicotyledones.
(593) Abd. 1912.
- 5819 — — *Monocotyledones.* Abd. 1912.
(593)
- f. 5819 **Beccari, O.** *Malesia : raccolta di osservazioni botaniche.*
(595) 3 vols. Genova, Firenze 1877-90.
- B.M. 5819(6) **British Museum.** *Catalogue of the African plants*
collected by F. Welwitsch in 1853-61. [Now in the
British Museum.] By W. P. Hiern and others.
2 vols. London. 1896-1901.
- 5819(6) **Thonner, F.** *Die Blütenpflanzen Afrikas.* Berl. 1908.
- 5819(62) **Muschler, R.** *Manual flora of Egypt.* 2 vols.
Berl. 1912.
- B.M. 5819 **British Museum.** *Catalogue of plants collected in*
(669) *South Nigeria.* By A. B. Rendle, etc. London. 1913.
- 5819 **Wildeman, E. de.** *Notices sur des plantes utiles ou*
(672) *intéressantes de la flore du Congo.* Publ. de l'État
Indépendant du Congo. [1]→ Brux. 1903→
- 5819(68) **Marloth, R.** *Flora of South Africa.* Vol. 1→
Capetown 1913→

- 5819(68) **Stoneman, B.** Plants and their ways in South Africa.
Lond. 1915.
- 5819(7) **Gray, A.** Synoptical flora of North America. Vols. 1-2,
pt. 1. New York 1878-97.
- 5819(7) **North American flora.** New York 1916→
- 5819 **Guppy, H. B.** Plants, seeds, and currents in the West
(729) Indies and Azores. Lond. 1917.
- B.M. 5819 **British Museum.** Flora of Jamaica. By W. Fawcett
(7292) and A. B. Rendle. Vol. 1→ Lond. 1910→
- 5819 **Boldingh, I.** Flora of St. Eustatius, Saba, and St.
(7297) Martin. Leiden 1909.
- 5819 **Daniels, F. P.** Flora of Boulder, Colorado.
(788) Columbia 1911.
- 5819(8) **Spruce, R.** Notes of a botanist on the Amazon and
Andes. 2 vols. Lond. 1908.
- 5819(81) **Wettstein, R. R. von.** Vegetationsbilder aus Süd-
brasilien. Tafeln. Leip. 1904.
- 5819(88) **Rodway, J.** In the Guiana forest. Lond. 1895.
- 5819 **Cheeseman, T. F.** Illustrations of New Zealand flora.
(931) Ed. T. F. C. Wellington 1914.
- 5819 — Manual of New Zealand flora. Wellington 1906.
(931)
- 5819 **Laing, R. M., and Blackwell, E. W.** Plants of New
(931) Zealand. Christchurch 1907.
- 5819(94) **Ewart, A. J., and Davies, O. B.** Flora of the Northern
Territory. Melbourne 1917.
- 5819(94) **Mueller, F. von, Baron.** Iconography of Australian
species of acacia. Decades 1-13. 1887-1888.
Melbourne 1888.
- 5819(94) — Second systematic census of Australian plants.
Pt. 1. Melbourne 1879.
- 5819 **Bailey, F. M.** Catalogue of Queensland plants.
(943) Brisbane [1909].
- 5819 **Mueller, F. von, Baron.** Native plants of Victoria.
(945) Pt. 1. Melbourne 1879.

582-589 SYSTEMATIC BOTANY.

-582 PHANEROGAMS.

- 582 **Bentham, G., and Hooker, J. D.** Genera plantarum.
 3 vols. Lond. 1862-83.
 f. 582 **Dalla Torre, C. G. de, and Harms, H.** Genera
 siphonogamarum. Lips. 1907.
 582 **Rendle, A. B.** Classification of flowering plants. Vol.
 1→ Camb. 1904→
 582 **Willis, J. C.** Manual of flowering plants and ferns.
 Camb. 1904.
 58203 **Durand, T.** Index generum phanerogamorum.
 Brux. 1888.
 f. 582(4) **Hempel, G., and Wilhelm, K.** Die Bäume und
 Sträucher des Waldes. 3 pts. and atlas.
 Wien [1903-05].
 582(42) **Loudon, J. C.** Arboretum et fruticetum Britannicum.
 8 vols. Lond. 1838.
 582(7) **Sargent, C. S.** Manual of the trees of North America
 (exclusive of Mexico). Boston [Mass.] 1905.
 582(883) **Pulle, A. A.** Enumeration of the vascular plants
 known from Surinam. Leiden 1906.
 B.M. 582 **British Museum.** Illustrations of Australian plants
 (94) collected in 1770 by Sir J. Banks and D. Solander.
 With determinations by J. Britten. Lond. 1905.
 582 **Eichler, A. W.** Blüthendiagramme. 2 vols.
 : 58148 Leip. 1875-78.
 582 **Schneider, C. K.** Illustriertes Handbuch der Laub-
 : 634 holzkunde. 2 vols. Jena 1906-12.
 582 **Trelease, W.** Plant materials of decorative gardening.
 : 634 Woody plants. Urbana 1917.
 582 — Winter botany. Urbana 1918.
 : 634

583 DICOTYLEDONS.

- 583135 **Gregory, Mrs. E. S.** British violets. Camb. 1912.
(42)

- 58317 **Watt, Sir G.** Cotton plants of the world. Lond. 1907.
 B.M. 583291 **British Museum.** Monograph of the genus *Sabicea*.
 By H. F. Wernham. Lond. 1914.
 f. 583375(4) **Sudre, H.** Rubi Europæ. Paris 1913.
 583445 **Léveillé, H.** Monographie du genre *Onothera*.
 Le Mans [1913].
 58345 ——— Iconographie du genre *Epilobium*.
 Le Mans [1911].
 583471 **Britton, N. L., and Rose, J. N.** The Cactaceae. Vol.
 1→ Wash. 1919→
 583481 **Petersen, H. E.** Indledende studier over Polymorphien
 hos *Anthriscus silvestris* (L.) Hoffm.
 Kjøbenhavn 1914.
 58355 **Handel-Mazzetti, H. von.** Monographie der Gattung
Taraxacum. Leip. 1907.
 58355(42) **Linton, W. R.** Account of the British Hieracia.
 Lond. 1905.
 f. 58362 **Millais, J. G.** Rhododendrons. Lond. 1917.
 f. 583914 **Mueller, F. von, Baron.** Iconography of Australian sal-
 (94) solaceous plants. Decades 1-9. Melbourne 1889-91.
 583941 **Trelease, W.** Genus *Phoradendron*. Urbana 1916.
 f. 583981(4) **Camus, A., and E. G.** Classification des saules
 d'Europe. Atlas. Vol. 1→ Paris 1904→

584 MONOCOTYLEDONS.

- 58415 **Camus, E. G.** Monographie des orchidées. Paris 1908.
 58415 **Costantin, J.** Atlas en couleurs des orchidées cultivées.
 Paris [1913].
 58415 **Schulze, M.** Die Orchidaceen Deutschlands, Deutsch-
 (43) Oesterreichs und der Schweiz.
 Gera-Untermhaus 1894.
 584252 **Burbidge, F. W.** Narcissus. Lond. 1875.
 f. 584743 **Hagström, J. O.** Critical researches on the potamogetons.
 Stockh. 1916.
 f. 584743 **Fryer, A., and Bennett, A.** Potamogetons of the
 (42) British Isles. Lond. 1915.

·58 BOTANY

- 58484 **Clarke, C. B.** New genera and species of Cyperaceae.
Lond. 1908.
- 58484(44) **Husnot, T.** Cypéracées. Cahan 1906.
- 58484 **Crawford, F. C.** Anatomy of British Carices.
: 5814 Edin. 1910.
- f.·5849(4) **Husnot, T.** Graminées : descriptions, figures et usages
des graminées spontanées et cultivées de France,
Belgique, Iles Britanniques, Suisse. Cahan 1899.
- 5849(41) **Parnell, R.** Grasses of Scotland. Edin. 1842.
- 5849(42) — Grasses of Britain. Edin. 1845.

·585 GYMNOSPERMS.

- f.·5852 **Baker, H. Clinton-.** Illustrations of conifers. Vol. 1→
Hertford 1909→
- 5852 **Beissner, L.** Handbuch der Nadelholzkunde.
Berl. 1891.
- 5859 **Chamberlain, C. J.** The Living cycads.
Chicago [1919].

·586 CRYPTOGRAMS.

- 58606 **British mycological society.** Trans. Vol. 1→
B.M. Worcester [1902]→
- 586(41) **Greville, R. K.** Scottish cryptogamic flora. 6 vols.
Edin. 1823-28.
- 586(42) **Groves, J., and Webster, G. R. Bullock-.** British
Charophyta. Vol. 1→ Lond. 1920→
- 586(43) **Rabenhorst, L.** Kryptogamen-Flora von Deutschland.
Vol. 1→ Leip. 1884→
- 586 **Crouan, P. L., and H. M.** Florule du Finistère, conte-
(4411) nant une synonymie des plantes cellulaires et vascu-
laires qui croissent dans ce département. Paris 1867.
- 586(494) **Switzerland.** Beiträge zur Kryptogamenflora der
Schweiz. Vol. 1→ Bern 1901→
- 586 : 581 **Campbell, D. H.** The Structure and development of
mosses and ferns. New York, 1918.

·587 PTERIDOPHYTES.

- 587 **Hofmeister, W.** Higher Cryptogamia. Lond. 1862.
 B.M. ·587 **British Museum.** List of British seed-plants and ferns.
 (42) By A. B. Rendle and J. Britten. Lond. 1907.
 ·5873 **Christ, H.** Die Geographie der Farne. Jena 1910.
 ·5873 **Christensen, C.** Index filicum, etc. Hafniae 1906.
 ·5873 **Conard, H. S.** Structure and history of hay-scented
 fern. Wash. 1908.
 f. ·5873 **Hooker, Sir W. J.** Filices exoticæ. Lond. 1859.
 ·5873 **Hooker, Sir W. J., and Baker, J. G.** Synopsis fili-
 cum. Lond. 1874.
 ·5873(4) **Britten, J.** European ferns. Lond.
 ·5873(42) **Lowe, E. J.** Our native ferns. 2 vols. Lond. 1874-76.
 ·5873(54) **Beddome, R. H.** Ferns of British India, Ceylon, and
 the Malay Peninsula. Calcutta 1892.
 ·5873(91) **Alderwerelt van Rosenburgh, C. R. W. K. van.**
 Malayan ferns. Batavia 1908-09.

·588 BRYOPHYTES.

- 5881 **Braithwaite, R.** The Sphagnaceæ or peat mosses of
 Europe and North America. Lond. 1880.
 ·5882 **Correns, C.** Untersuchungen über die Vermehrung der
 Laubmoose. Jena 1899.
 ·588203 **Paris, E. G.** Index bryologicus. Vol. 1→
 Paris 1904→
 ·5882(4) **Roth, G.** Die Europäischen Laubmoose. 2 vols.
 Leip. 1904-05.
 ·5882(4) — Die Europäischen Torfmoose. Leip. 1906.
 ·5882(42) **Braithwaite, R.** British moss-flora. 3 vols.
 Lond. 1887-1905.
 ·5882(42) **Jameson, H. G.** Illustrated guide to British mosses.
 Eastbourne
 ·5882(42) **Moss exchange club.** Census catalogue of British
 mosses. York 1907.

·58 BOTANY

- 5883(42) **Macvicar, S. M.** Student's handbook of British hepatics.
Eastbourne 1912.
·5883(71) **Pearson, W. H.** Canadian Hepaticæ. Montreal 1890.

·589 THALLOPHYTES.

·5891 LICHENS.

- B.M.·5891 **British Museum.** Monograph of British lichens—descriptive catalogue. By A. L. Smith. Pt. 1→
London. 1918→
B.M.·5891 — Monograph of lichens found in Britain, in the herbarium of the British Museum. By J. M. Crombie (and A. L. Smith). 2 vols. London. 1894-1911.
·5891(42) **Smith, Sir J. E.** English botany. Vols. 10, 11, and suppl. [Lichens.] London. 1844-46.

·5892 FUNGI.

- 5892 **Buller, A. H. R.** Researches on fungi. London. 1909.
·5892 **Clements, F. E.** Genera of fungi. Minneapolis 1909.
·5892 **Lindau, G., and Sydow, P.** Thesaurus litteraturæ mycologicae et lichenologicae 2 vols.
Lips. 1908-09.
·5892 **Massee, G.** Text-book of fungi. London. 1906.
·5892(4) — European fungus flora. London. 1902.
·5892(41) **Stevenson, J.** Mycologia Scotica. Edin. 1879.
·5892(42) **Badham, C. D.** Treatise on the esculent funguses of England. London. 1847.
B.M.·5892 **British Museum.** Guide to Sowerby's models of British fungi. By W. G. Smith. [London.] 1908.
·5892(42) **Cooke, M. C.** Handbook of British fungi. London. 1883.
·5892(42) — Rust, smut, mildew, and mould. London. 1872.
·5892(42) **Massee, G.** British fungus flora. 4 vols.
London. 1892-95.
·5892 **Rostrup, E.** Danish fungi. Copenh. 1913.
(489)
·5892 **Koorders, S. H.** Botanische Untersuchungen über einige in Java vorkommende Pilze. Amst. 1907.
(922)

- 5892 **Harshberger, J. W.** Text-book of mycology and plant
: 5812 pathology. Lond. 1918.
- f. 5892 **Brefeld, O.** Botanische Untersuchungen über Schim-
: 5813 melpilze. Pt. 1→ Leip. 1872→
- 5892 **Cooke, M. C.** Vegetable wasps and plant worms.
: 58169 Lond. 1892.
- B.M. 589214 **British Museum.** Guide to Smith's drawings of field
and cultivated mushrooms. Lond. 1910.
- 589214 **Stevenson, J.** British fungi. Hymenomycetes. 2 vols.
(42) Edin. 1886.
- f. 58922 **Hard, M. E.** The Mushroom, edible and otherwise.
Columbus, O. [1903].
- 58922 **Maire, R.** Recherches cytologiques et taxonomiques sur
les basidiomycètes. Lons-le-Saunier 1902.
- 589225 **Klebahn, H.** Die Wirtswechselnden Rostpilze.
Berl. 1904.
- 589225 **Sydow, P., and H.** Monographia Uredinearum. 2 vols.
Lips. 1904-10.
- 589225 **Grove, W. B.** British rust fungi, Uredinales.
(42) Camb. 1913.
- 589225 **Plowright, C. B.** Monograph of the British Uredineae
(42) and Ustilagineae. Lond. 1889.
- 589233 **Phillips, W.** Manual of the British Discomycetes.
(42) Lond. 1887.
- 589252 **Berlese, A. N.** Saggio di una monografia delle Pero-
nosporacee. Portici 1903.
- f. 58929 **Chapman, A. C., and Baker, F. G. S.** Atlas of the
Saccharomycetes. Lond. 1906.

5893 ALGAE.

- 5893 **Agardh, J. G.** Species genera et ordines algarum.
3 vols. Lundae 1848-1901.
- 5893 **West, G. S.** Algæ. Vol. 1→ Camb. 1916→
- 5893(26) **Sauvageau, C.** Utilisation des algues marines.
Paris 1920.

- f. 5893 { **Reinke, J.** Algenflora der westlichen Ostsee deutschen
(2612) { Antheils. [Berl. 1889.]
 { ——— Atlas deutscher Meeresalgen. Berl. 1889.
- f. 5893 **Kjellman, F. R.** Algae of the Arctic Sea.
(268) Stockh. 1883.
- 5893(28) **Bachmann, H.** Das Phytoplankton des Süßwassers.
Jena 1911.
- f. 5893 **Cooke, M. C.** Introduction to fresh-water algae.
(28) Lond. 1890.
- 5893 **Bernard, C.** Algues unicellulaires d'eau douce.
(28 : 91) Buitenzorg 1909.
- 5893 ——— Protococcacées et desmidiées d'eau douce.
(28 : 91) Batavia 1908.
- 5893(42) **Cooke, M. C.** British fresh-water algae, exclusive of
Desmidiaceae and Diatomaceae. 2 vols. Lond. 1884.
- 5893(42) **Harvey, W. H.** Phycologia Britannica. 4 vols.
Lond. 1871.
- 5893(42) **West, G. S.** Treatise on the British fresh-water algae.
Camb. 1904.
- 5893(48) **Kylin, H.** Studien über die Algenflora der schwedischen
Westküste. Upsala 1907.
- 5893(7) **Collins, F. S.** Green algae of North America.
Tufts College, Mass. 1909.
- f. 5893(7) **Harvey, W. H.** Nereis Boreali-Americana. 3 pts.
Wash. 1852-58.
- 5893 **Oltmanns, F.** Morphologie und Biologie der Algen.
: 581 • Vol. 1 → Jena 1904 →
- 5893II **Heurck, H. van.** Treatise on the Diatomaceae.
Lond. 1896.
- f. 5893II **Schmidt, A.** Atlas der Diatomaceen-Kunde. Hrsg.
A. S. Ser. I. → Leip. 1874 →
—— ——— Index. Ser. I-V. Leip. 1902.
- B.M. 5893II **British Museum.** List of British Diatomaceae. By
(42) W. Smith. Lond. 1859.
- 5893II **West, W., and G. S.** Monograph of the British
(42) Desmidiaceae. Vol. 1 → Lond. 1904 →

·59 ZOOLOGY.

- *59 **Bronn, H. G.** Klassen und Ordnungen des Thierreichs.
Von H. G. Bronn, etc. Vol. 1→ Leip. 1859→
- *5901 **Congrès internationaux de zoologie.** Règles internationales de la nomenclature zoologique. Paris 1905.

·5902 MANUALS.

- 5902 **Davis, A.** Natural history of animals. 8 vols.
Lond. 1903-4.
- 5902 **Jordan, D. S., and Heath, H.** Animal forms.
Lond. 1902.
- 5902 **Jordan, D. S., and Kellogg, V. L.** Animal life.
Lond. 1901.
- 5902 **Kellogg, V. L.** Elementary zoology. New York 1902.
- 5902 **Lankester, Sir E. R.** Treatise on zoology. Ed.
E. R. L. Vol. 1→ Lond. 1900→
- 5902 **Parker, T. J., and Haswell, W. A.** Manual of zoology.
Lond. 1899.
- 5902 **Parker, T. J.** Text-book of zoology. 2 vols.
Lond. 1897.
- 5902 **Sedgwick, A.** Student's text-book of zoology. 3 vols.
Lond. 1898-1909.
- 5902 **Thomson, J. A.** Outlines of zoology. Edin. 1919.
- 5902 **Wells, H. G.** Text-book of zoology. Lond. [1898].
- Ref.*·5903 **Jäger, G.** Handwörterbuch der Zoologie, Anthro-
pologie, und Ethnologie. Hrsg. G. Jäger, A. Reich-
enow, etc. 8 vols. Breslau 1880-1900.
- Ref.*·5903 **Sherborn, C. D.** Index animalium, sive index nominum
quae ab A.D. 1758 generibus et speciebus animalium
imposita sunt. Vol. 1→ Cantab. 1902→

5905 PERIODICALS.

- 5905 A.ZO. **Acta zoologica.** Vol. 1→ Stockh. 1920→
- 5905 A.S. **Annales des sciences naturelles—Zoologie.** Ser. IV.
Vols. 13-20; Ser. V→. [See also 5705.]
Paris 1860→
- 5905 A.P. **Archiv für Protistenkunde.** Vol. 42→ Jena 1921→
- 5905 A.Z. **Archives de zoologie expérimentale et générale.**
Vol. 1→ Paris 1872→
- 5905 B.B. **British birds.** Vol. 1→ Lond. [1908→].
- 5905 E.F. **Ergebnisse und Fortschritte der Zoologie.** Vol. 1→
Jena 1909→
- 5905 M.J. **Morphologisches Jahrbuch.** Vol. 24→ Leip. 1896→
- 5905 W.Z. **Zeitschrift für wissenschaftliche Zoologie.** Vol. 25→
Leip. 1875→
- 5905 **Zentralblatt für Zoologie, allgemeine und experi-**
Z.ZO. **mentelle Biologie.** Vol. 1→ Leip. 1912→
- 5905 Z.R. **Zoological record.** Vols. 1-42. Lond. 1865-1906.
[Continued in Royal Society's International Cata-
logue, Zoology, 1906→, vol. 43→]
- 5905 Z.J. **Zoologische Jahrbücher.** Abt. für allgemeine Zoologie
und Physiologie der Tiere. Vol. 30→ Jena 1911→
- 5905 Z.J. — Abt. für Anatomie und Ontogenie der Thiere.
Vol. 9→ Jena 1896→
- 5905 Z.J. — Abt. für Systematik, Geographie und Biologie der
Thiere. Vol. 9→ Jena 1897→
- 5905 Z.J. — Supplement-Band, 4→ Jena 1898→
- 5905 Z.A. **Zoologischer Anzeiger.** Vol. 1→ Leip. 1878→
- 5905 Z.Z. **Zoologisches Zentralblatt.** Vols. 11-18. Leip. 1904-11.
- 5905 Z. **Zoologist.** 4 Series. Lond. 1843-1916.
- 5905(41) **Scottish Naturalist.** 1912→ Edin. 1912→
S.N.

5906 SOCIETIES.

- 5906 I.C. **International congress of zoology.** Fourth congress,
Cambridge, 1898. Lond. 1899.

·59· ZOOLOGY

- 5906 L.J. **Linnean society of London.** Journal. Zoology.
Vol. 1→ Lond. 1857→
- 5906 L.T. — Trans. Zoology. Ser. II. Vol. 1→. [See also
·5806.] Lond. 1879→
- 5906 M.A. **Museums association.** Reports of proceedings. 1890-
1900. [Sheffield], Lond. 1890-1900.
— Museums journal. Vol. 1→ Lond. 1901→
- 5906 Z.P. **Zoological society of London.** Proc. 1830→
Lond. [1831→]
- 5906 Z.T. — Trans. Vol. 1→ Lond. 1835→
- 5906 **Svenska vetenskaps-akademien, K.** Arkiv för zoo-
(485) logi. Vol. 1→ Stockh. 1904→
- 5906(54) **Indian Museum.** Memoirs. Vol. 1→ Calcutta 1909→
I.M.M.
- 5906(54) — Records. Vol. 1→ Calcutta 1907→
I.M.R.
- 506(73) **Smithsonian Institution**—U.S. National Museum.
S.M. Proc. 1878-81. Vols. 1-4. (In Misc. Coll., vols.
19, 22.) Wash. 1879-82.
- 5906 — Proc. 1882→. Vol. 5→ Wash. 1883→
(73) P.
- 5906 **Michigan University**—Museum of Zoology. Occasional
(774) M.U. papers. No. 1→ Ann Arbor [1917→]
- 5906 **California University publications.** Zoology. Vol.
(794) C.U. 1→ Berkeley 1905→
- 5906(94) **Australian Museum.** Records. Vols. 1-3.
Sydney 1891-1900.

·5907 METHODS OF STUDY.

- 5907 **Landois, H.** Das Studium der Zoologie
Freiburg i. B. 1905.
- 59074 **Flower, Sir W. H.** Essays on museums. Lond. 1898.
- 59074 **Taylor, J. E.** The Aquarium. Lond. 1881.

·5908 COLLECTIVE WORKS.

- 59081 **Budgett, J. S.** Work of John Samuel Budgett. Ed.
J. G. Kerr. Camb. 1907.

·59 ZOOLOGY

- 59081 **Huxley, T. H.** Scientific memoirs. 4 vols. and supplementary vol. Lond. 1898-1903.
- 59082 **Harmer, S. F., and Shipley, A. E.** The Cambridge natural history. Ed. S. F. H. and A. E. S. 10 vols. Lond. 1895-1909.
- 59082 **Sharpe, R. B.** Allen's naturalist's library. Ed. R. B. S. 15 vols. Lond. 1894-97.
- f.* ·59082 **Thomson, J. A., and others.** Report on Alcyonaria. Abd. 1905.
- f.* ·59082 — Studies on alcyonarians and antipatharians. Abd. 1907.
- f.* ·59082 — Studies on alcyonarians and hydroids. Ser. 3. Abd. 1909.
- f.* ·59082 — Studies on alcyonarians. Ser. 4. Abd. 1909.
- f.* ·59082 — Zoological studies, chiefly on alcyonarians. Ser. 5-6. Abd. 1911.
- f.* ·59082 — Zoological studies. Ser. 7-9. Abd. 1912-15.
- f.* ·59084 **Bartholomew, J. G.** Atlas of zoogeography. [Edin.] 1911.

·5909 HISTORY.

- 5909 **Carus, J. V.** Histoire de la zoologie. Paris 1880.
- 5909(42) **Nicholson, H. A.** Natural history, its rise and progress in Britain. Lond. 1886.
- 016:59 **Agassiz, L.** Bibliographia zoologiae et geologiae. 4 vols. Lond. 1848-54.
- 016:59 **Bibliographia zoologica.** Ed. J. V. Carus (et *B.Z.* H. H. Field). Vol. 1→ Lips. 1896→
- B.M.* **British Museum.** Guide to exhibition of old natural history books. Lond. 1905.
- 016:59 **Carus, J. V., and Engelmann, W.** Bibliotheca zoologica. 1846-60. 2 vols. Leip. 1861.
- 016:59 **Engelmann, W.** Bibliotheca historico-naturalis. 1700-1846. Vol. 1. Leip. 1846.
- 016:59 **Royal Society.** International catalogue of scientific literature. Zoology. [1901→] Lond. 1902→

·59 ZOOLOGY

- 016 : 59 **Taschenberg, O.** *Bibliotheca zoologica.* 1861-80.
Vol. 1→ Leip. 1887→
- 016 : 59 **Thompson, D. W.** *Bibliography of Protozoa, sponges,
etc.* Camb. 1885.
- 59092 **Gosse, E.** *The Naturalist of the sea-shore—the life of
Philip Henry Gosse.* Lond. 1896.
- 59092 **Legros, C. V.** *Fabre, poet of science.* Lond. [1913].
- 59092 **MacGillivray, W.** *Lives of eminent zoologists from
Aristotle to Linnæus.* Edin. 1834.
- 59092 ——— *Memorial tribute to William MacGillivray, LL.D.*
Edin. 1901.
- 59092 **Stebbing, T. R. R.** *The Naturalist of Cumbrae, being
the life of David Robertson.* Lond. 1891.
- 59 : 799 **Speedy, T.** *Natural history of sport in Scotland.*
Edin. 1920.

·591 BIOLOGICAL ZOOLOGY.

- 591 **Morgan, T. H.** *Experimental zoology.* New York 1907.
- 59105 **Journal of experimental zoology.** Vol. 1→
E.Z. Baltimore, Philad. 1904→
- 591081 **Balfour, F. M.** *Works.* 4 vols. Lond. 1885.
- 591 **Huxley, T. H.** *The Crayfish.* Lond. 1880.
: 59538
- 591 **Marshall, A. M.** *The Frog, an introduction to ana-
: 5978 tomy, histology, and embryology.* Lond. 1914.
- 591 **Mivart, St. G.** *The Common frog.* Lond. 1874.
: 5978
- 591 ——— *The Cat, an introduction to the study of backboneed
: 59975 animals.* Lond. 1881.

·5911 PHYSIOLOGY.

- 5911 **Loeb, J.** *Studies in general physiology.* 2 vols.
Chicago, 1905.
- 5911 **Mills, W.** *Text-book of animal physiology.*
New York 1889.
- 5911 ——— *Text-book of comparative physiology.*
New York 1890.

- 5911 **Pütter, A.** Vergleichende Physiologie. Jena 1911.
- 5911 **Sherrington, C. S.** Integrative action of the nervous system. New York 1906.
- 5911 **Winterstein, H.** Handbuch der vergleichenden Physiologie. Vol. 2→ Jena 1911→
- 5911 **Griffiths, A. B.** Physiology of the Invertebrata. Lond. 1892.
: 592
- 5911 **Ellenberger, W., and Scheunert, A.** Lehrbuch der vergleichenden Physiologie der Haussäugetiere. Hrsg. W. E. u. A. S. Berl. 1910.
: 636
- 5911 **Smith, R. M.** Physiology of the domestic animals. Philad. 1890.
: 636
- 5911 **Wood, T. B., and Marshall, F. H. A.** Physiology of farm animals. Pt. 1→ Camb. 1920→
- 59112 **Benedict, F. G., and Carpenter, T. M.** Respiration calorimeters. Wash. 1910.
- 591145 **Faust, E. S.** Die Tierischen Gifte. Braunsch. 1906.
- 591156 **Goodale, H. D.** Gonadectomy in relation to secondary sexual characters of domestic birds. Wash. 1916.
- 591157 **Beddard, F. E.** Animal coloration. Lond. 1892.
- 591157 **Poulton, E. B.** The Colours of animals, their meaning and use. Lond. 1890.
- 591157 **Thayer, G. H.** Concealing-coloration in the animal kingdom. New York 1909.
- 591157 **Brücke, E.** Untersuchungen über den Farbenwechsel des afrikanischen Chamäleons. Leip. 1893.
: 59811
- 591159 **Guinard, L.** Précis de tératologie. Paris 1893.
- 59116 **Castle, W. E., and Phillips, J. C.** Germinal transplantation in vertebrates. Wash. 1911.
- 591162 **Loeb, J.** Artificial parthenogenesis and fertilization. Chicago [1913].
- 591169 **Morgan, T. H.** Regeneration. New York 1901.
- 591176 **Goldmann, E. E.** Untersuchungen über die Sekretion des gesunden und kranken Organismus. Tübingen 1912.

·59 ZOOLOGY

- 59118 **Loeb, J.** Comparative physiology of the brain and comparative psychology. Lond. 1905.

·5912 PATHOLOGY.

- 5912 **Hofer, B.** Handbuch der Fischkrankheiten. München 1904.
: 597

·5913 EMBRYOLOGY.

- 5913 **Brachet, A.** L'Œuf et les facteurs de l'ontogénèse. Paris 1917.
- 5913 **Grosser, O.** Vergleichende Anatomie und Entwicklungsgeschichte der Eihäute und der Placenta. Wien 1909.
- 5913 **Long, J. A., and Mark, E. L.** Maturation of the egg of the mouse. Wash. 1911.
- 5913 **Maas, O.** Einführung in die experimentelle Entwicklungsgeschichte. Wiesbaden 1903.
- f. ·5913 **Selenka, E.** Studien über Entwicklungsgeschichte der Tiere. 5 vols. Wiesbaden 1883-1913.
- 5913 **Wolff, C. F.** Theoria generationis. 2 pts. Leip. 1896.
- 591302 **Balfour, F. M.** Treatise on comparative embryology. 2 vols. Lond. 1880-81.
- 591302 **Foster M., and Balfour, F. M.** Elements of embryology. Lond. 1883.
- 591302 **Heape, W.** Text-book of embryology. Ed. W. H. Vol. 1→ Lond. 1914→
- 591302 **Lillie, F. R.** The Development of the chick. New York 1908.
- 591302 **Roule, L.** L'Embryologie comparée. Paris 1894.
- 591302 **Korschelt, E., and Heider, K.** Text-book of embryology of invertebrates. 4 vols. Lond. 1895-1900.
: 592
- 591306 **Embryologisches Institut der K. K. Universität** (4361) **Wien.** Mittheilungen, 1877-92. Wien 1877-92.
- 5913081 **Assheton, R.** Growth in length. Camb. 1916.

- 5913 **Hertwig, O.** Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere. Hrsg. O. H. 3 vols. Jena 1906.
: 596
- f. ·5913 **Keibel, F.** Normentafeln zur Entwicklungsgeschichte der Wirbelthiere. Hrsg. F. K. Pt. 1→ Jena 1897→
: 596
- f. ·5913 **Schauinsland, H.** Entwicklungsgeschichte und Anatomie der Wirbeltiere. 3 pts. Stuttg. 1903.
: 596
- 5913 **Hatschek, B.** The Amphioxus and its development. Lond. 1893.
: 5971
- 5913 **Wille, A.** Amphioxus, and the ancestry of the vertebrates. New York 1894.
: 5971
- 5913 **Balfour, F. M.** Monograph on the development of elasmobranch fishes. Lond. 1878.
: 5973
- 5913 **Morgan, T. H.** The Development of the frog's egg. New York 1897.
: 5978
- 5913 **Chaine, J.** Tableaux synoptiques du développement du lapin. Paris 1911.
: 599
- 5913 **Marshall, A. M.** Vertebrate embryology. Lond. 1893.
: 599
- 59133 **Stevens, N. M.** Studies on the germ cells of aphids. Wash. 1906.
: 595772
- 59134 **Avebury, Sir J. Lubbock, 1st baron.** Origin and metamorphoses of insects. Lond. 1874.
: 5957

·5914 MORPHOLOGY.

- 5914 **Duckworth, W. L. H.** Morphology and anthropology. Vol. 1→ Camb. 1915→
- 5914 **Thompson, D'Arcy W.** On growth and form. Camb. 1917.
- 591402 **Gegenbaur, C.** Elements of comparative anatomy. Lond. 1878.
- 591402 **Lang, A.** Text-book of comparative anatomy. 2 pts. Lond. 1891-96.
- 591402 **Rolleston, G.** Forms of animal life—a manual of comparative anatomy. Enlarged by W. H. Jackson. Oxf. 1888.

·59 ZOOLOGY

- 59I402 **Vogt, C., and Yung, É.** *Traité d'anatomie comparée.*
2 vols. Paris 1888-94.
- 59I404 **Huxley, T. H.** *Lectures on the elements of comparative anatomy.* Lond. 1864.
- 59I407 **Davenport, C. B.** *Experimental morphology.* 2 vols.
New York 1897-99.
- 59I4 **Gaskell, W. H.** *The Origin of vertebrates.*
: 596 Lond. 1908.
- 59I4 **Kingsley, J. S.** *Comparative anatomy of vertebrates.*
: 596 Lond. 1912.
- 59I4 **Wiedersheim, R.** *Comparative anatomy of vertebrates.*
: 596 Lond. 1907.
- 59I4 **Ecker, A.** *Anatomy of the frog.* Oxf. 1889.
: 5978
- 59I4 **Krause, W.** *Anatomie des Kaninchens.* Leip. 1884.
: 5993²
- 59I4 **Chauveau, A.** *Comparative anatomy of the domesticated animals.* New York 1891.
: 636
- 59I4 **Ellenberger, W.** *Handbuch der vergleichenden mikroskopischen Anatomie der Haustiere.* 3 vols.
: 636 Berl. 1906-11.
- 59I4I2 **Favaro, G.** *Ricerche al cuore dei vertebrati.* 2 pts.
Padova 1913-14.
- B.M. ·59I47 **British Museum.** *Guide to exhibition of specimens illustrating modification of structure of animals in relation to flight.* Lond. 1913.
- 59I47 **Marey, E. J.** *Animal mechanism.* Lond. 1873.
- 59I47 **Pettigrew, J. B.** *Animal locomotion.* Lond. 1874.
- 59I47I **College of surgeons of England, Royal.** *Catalogue of specimens illustrating the osteology and dentition of vertebrated animals.* Pt. 1→ Lond. 1907→
: 596
- 59I47I **Starks, E. C.** *The Sesamoid articular.*
: 597 Stanford Univ. 1916.
- 59I47I **Flower, W. H.** *Introduction to the osteology of the Mammalia.* Lond. 1885.
: 599

- '59148 **Mayer, A. G.** Rhythmical pulsation in Scyphomedusæ. Wash. 1906.
: 59373
- '59148 **Donaldson, H. H.** The Rat—reference tables and data. Philad. 1915.
: 59932
- '591485 **Gray, A. A.** The Labyrinth of animals. Vol. 1→ Lond. 1907→
: 596
- '59149 **Reynolds, S. H.** The Vertebrate skeleton. Camb. 1913.
: 596
- '5915 HABITS AND BEHAVIOUR.
- '5915 **Bell, R.** My strange pets. Edin. 1905.
- '5915 **Cornish, C. J.** Animals at work and play. Lond. 1896.
- '5915 **Groos, K.** The Play of animals. Lond. 1898.
- '5915 **Houssay, F.** The Industries of animals. Lond. 1893.
- '5915 **Kearton, R.** With nature and a camera. Lond. 1911.
- '5915 **Mitchell, P. C.** The Childhood of animals. Lond. 1912.
- '5915 **Morgan, C. L.** Animal behaviour. Lond. 1900.
- '5915(54) **Aitken, E. H., pseud. Eha.** The Tribes on my frontier. Calcutta 1884.
- '5915 **Jennings, H. S.** Behaviour of the lower organisms. New York 1906.
: 5931
- '5915 **Fabre, J. H.** Insect life. Lond. 1901.
: 5957
- '5915 ——— Souvenirs entomologiques, études sur l'instinct et les mœurs des insectes. 9 ser. Paris [1879].
: 5957
- '5915 **Avebury, Sir J. Lubbock, 1st baron.** Ants, bees, and wasps—observations on the habits of the social Hymenoptera. Lond. 1883.
: 59579
- '5915 **Peckham, G. W., and E. G.** Wasps, social and solitary. Westm. 1905.
: 59579
- '5915 **Headley, F. W.** Structure and life of birds. Lond. 1895.
: 5982
- '5915 **Witchell, C. A.** Evolution of bird-song. Lond. 1896.
: 5982
- f. '5915 **Millais, J. G.** Game-birds and shooting sketches. Lond. 1892.
: 5985
- f. '5915 ——— Natural history of British game birds. Lond. 1909.
: 5985

59 ZOOLOGY

- 59151 **Avebury, Sir J. Lubbock, 1st baron.** On the senses, instincts, and intelligence of animals. Lond. 1888.
- 59151 **Morgan, C. L.** Animal life and intelligence. Lond. 1891.
- 59151 ——— Habit and instinct. Lond. 1896.
- 59151 **Romanes, G. J.** Animal intelligence. Lond. 1882.
- 59151 **Wasmann, E.** Comparative studies in the psychology of ants. St. Louis 1905.

5916 ECONOMICS.

- B.M. 5916 **British Museum.** Guide to specimens and enlarged models of insects and ticks. Lond. 1916.
- B.M. 5916 ——— Report on economic zoology. No. 1→ By F. V. Theobald. Lond. 1903→
- B.M. 591608 **BRITISH MUSEUM.** Economic series. No. 1→
ECO. Lond. 1915→

12. **Austen, E. E.** The House fly. 1920.
2. **Cummings, B. F.** The Louse and its relation to disease. 1915.
3. **Waterston, J.** Fleas as a menace, etc. 1916.
4. **Edwards, F. W.** Mosquitoes. 1916.
5. **Cummings, B. F.** The Bed-bug. 1917.
6. **Hirst, S.** Arachnida and Myriopoda. 1917.
7. **Kirkpatrick, R.** Biology of waterworks. 1917.
8. **Hinton, M. A. C.** Rats and mice as enemies of mankind. 1918.
9. **Frohawk, F. W.** Birds beneficial to agriculture. 1919.
10. **Calman, W. T.** Marine boring animals injurious to submerged structures. 1919.
11. **Gahan, C. J.** Furniture beetles. 1920.

- 5916 **Miall, L. C.** Injurious and useful insects. Lond. 1902.
- : 5957
- 5916 **Bos, J. R.** Thierisch Schädlinge und Nützlinge. Berl. 1891
- : 632
- 59162 **Darwin, C.** Vegetable mould and earthworms. Lond. 1881.

- B.M. 59165 **British Museum.** Illustrations of British blood-sucking flies. Notes by E. E. Austen. Lond. 1906.
- (42)

·59 ZOOLOGY

- B.M.·59165(6) **British Museum.** Illustrations of African blood-sucking flies, other than mosquitoes and tsetse-flies.
By E. E. Austen. Lond. 1909.
- 59166 **Butler, E. A.** Household insects. Lond. 1893.
: 5957
- 59167 **Doflein, F.** Lehrbuch der Protozoenkunde. Jena 1909.
: 5931
- 59169 **Beneden, P. J. van.** Animal parasites. Lond. 1876.
- 59169 **Brumpt, E.** Précis de parasitologie. Paris 1910.
- 59169 **Leuckart, R.** Parasites of man and diseases which proceed from them. Edin. 1886.
- 59169 **Neveu-Lemaire, M.** Parasitologie des animaux domestiques. Paris 1912.
- 59169 **Rivas, D.** Human parasitology. Philad. 1920.
- 5916905 **Archives de parasitologie.** Vol. 10→ Paris 1906→
A.P.
- 5916905 P. **Parasitology.** Vol. 1→ Camb. 1908→
- 59169 **Kellogg, V. L., and Ferris, G. F.** Anoplura and
: 599 Mallophaga of North American mammals.
Stanford Univ. 1915.

·5918 HISTOLOGY.

- 5918 **Dahlgren, U., and Kepner, W. A.** Principles of animal histology. New York 1908.
- 5918 **Ranvier, L.** Traité technique d'histologie.
Paris 1875/82.
- 5918 **Schneider, K. C.** Lehrbuch der vergleichenden Histologie der Tiere. Jena 1902.
- 5918 **Stirling, W.** Text-book of practical histology.
Lond. 1881.
- 5918 **Oppel, A.** Lehrbuch der vergleichenden mikroskopischen Anatomie der Wirbelthiere. Vol. 1→ Jena 1896→
: 596
- 59185 **Klieneberger, C., and Carl, W.** Die Blut-Morphologie der Laboratoriums-Tiere. Leip. 1912.

5919 GEOGRAPHICAL ZOOLOGY.

- 5919 **Heilprin, A.** Geographical and geological distribution of animals. Lond. 1887.
- 5919 **Wallace, A. R.** Geographical distribution of animals. 2 vols. Lond. 1876.
- 5919(22) ——— Island life, or the phenomena and causes of insular faunas and floras. Lond. 1880.
- 5919(23) **Zschokke, F.** Die Tierwelt der Hochgebirgsseen. Zürich 1900.
- 5919 **Tschudi, F. von.** Das Tierleben der Alpenwelt. (2343) Leip. 1890.
- 5919(24) **Banta, A. M.** Fauna of Mayfield's cave. Wash. 1907.
- 5919(26) **Johnstone, J.** Life in the sea. Camb. 1911.
- 5919 **Leslie, G., and Herdman, W. A.** Invertebrate fauna (2612) of the Firth of Forth. Edin. 1881.
- B.M. 5919 **British Museum.** Report on zoological collections made (265) in the Indo-Pacific Ocean during the voyage of H.M.S. *Alert*, 1881-2. Lond. 1884.
- 5919 **Hornell, J.** Marine zoology of Okhamandal in Kathiawar. Vol. 1→ Lond. 1909→
- 5919(28) **Zacharias, O.** Die Tier- und Pflanzenwelt des Süßwassers. 2 vols. Leip. 1891.
- 5919 **Brauer, A.** Die Süßwasserfauna Deutschlands. Hrsg. (28:43) A. B. Heft 1-2A, 3/4-19. Jena 1909.
- f. 5919 **Wesenberg-Lund, C.** Plankton investigations of the (28:489) Danish lakes. [*Danish.*] 2 vols. Copenh. 1904.
- 5919(4) **Scharff, R. F.** History of the European fauna. Lond. 1899.
- 5919(41) **Crawford, J. H.** From fox's earth to mountain tarn. Lond. [1907].
- 5919(41) **Dalyell, Sir J. G.** Rare and remarkable animals of Scotland. 2 vols. Lond. 1847-48.
- 5919(41) **Ritchie, J.** The Influence of man on animal life in Scotland. Camb. 1920.

- 5919 **Alston, C. H.** Wild life in the West Highlands.
(411) Glasg. 1912.
- 5919 **Brown, J. A. Harvie-**, and **Macpherson, H. A.** Fauna
(411) of the North-west Highlands and Skye. Edin. 1904.
- 5919 **St. John, C.** Natural history and sport in Moray.
(4123) Edin. 1882.
- 5919 ——— Note-books. 1846-1853. Invererne, Nairn, Elgin,
(4123) Edin. 1901.
- 5919 **Elliot, G. F. S.** Fauna, flora, and geology of the Clyde
(414) area. Ed. G. F. S. E., etc. Glasg. 1901.
- 5919(54) **Blanford, W. T.**, and **Bingham, C. T.** Fauna of
British India. [*In progress.*] Lond. 1889→
- 5919 **Gardiner, J. S.** Fauna and geography of the Maldiv
(5488) and Laccadive Archipelagoes. Ed. J. S. G. 2 vols.
Camb. 1903-06.
- 5919(6) **Du Chaillu, P.** The World of the great forest.
Lond. 1901.
- 5919(68) **Fitzsimons, F. W.** Natural history of South Africa.
Vol. 1→ Lond. 1919→
- 5919(7) **North American fauna.** No. 1→ Wash. 1889→
- 5919 **Beebe, W.**, and *others.* Tropical wild life in British
(881) Guiana. Vol. 1→ New York 1917→
- 5919(93) **Willey, A.** Zoological results based on material from
New Britain, New Guinea, etc. 6 pts.
Camb. 1898-1902.
- 5919 **Hutton, F. W.** Index faunæ Novæ Zealandiæ. Ed.
(931) F. W. H. Lond. 1904.
- f. 5919 **Kent, W. Saville-**. The Naturalist in Australia.
(94) Lond. 1897.
- 5919 **McCoy, F.** Prodromus of the zoology of Victoria. 2
(945) vols. Melbourne 1885-90.
- f. 5919 **Hawaii.** Fauna Hawaiiensis. 3 vols. Camb. 1913.
(969)
- f. 5919 **Römer, F.**, and **Schaudinn, F.** Fauna arctica. Vol.
(98) 1→ Jena 1900→

·59 ZOOLOGY

- B.M.·5919 **British Museum.** Report on the collections of natural
(99) history made in the antarctic regions during the
voyage of the "Southern Cross". Lond. 1902.

·592-599 SYSTEMATIC ZOOLOGY.

·592 INVERTEBRATES.

- 592 **Brooks, W. K.** Handbook of invertebrate zoology.
Boston [Mass.] 1890.
- 592 **Huxley, T. H.** Manual of the anatomy of invertebrated
animals. Lond. 1877.
- 592 **Shipley, A. E.** Zoology of Invertebrata. Lond. 1893.
- 592(71) **Whiteaves, J. F.** Catalogue of the marine Invertebrata
of Eastern Canada. Ottawa 1901.

·5931 PROTOZOA.

- 5931 **Behla, R.** Die Amöben insbesondere vom parasitären
und culturellen Standpunkt. Berl. 1898.
- 5931 **Calkins, G. N.** The Protozoa. New York 1901.
- 5931 **Dobell, C.** Amoebae living in man. Lond. 1919.
- 5931 **Minchin, E. A.** Introduction to study of the Protozoa.
Lond. 1912.
- 5931(28) **Blochmann, F.** Mikroskopische Thierwelt des Süß-
wassers. Braunsch. 1886.
- 5931(42) **Cash, J., and Hopkinson, J.** British freshwater Rhizo-
poda and Heliozoa. Vol. 1→ Lond. 1905→
- f. ·59311 **Pénard, E.** Faune rhizopodique du bassin du Lemán.
(494) Genève 1902.
- f. ·59312 **Carpenter, W. B., and others.** Introduction to the
study of the Foraminifera. Lond. 1862.
- 59312 **Chapman, F.** The Foraminifera. Lond. 1902.
- f. ·59312 **Williamson, W. C.** Recent Foraminifera of Great
(42) Britain. Lond. 1858.
- 59315 **Kent, W. Saville-.** Manual of the Infusoria. 3 vols.
Lond. 1880-82.

·59 ZOOLOGY

·5934 SPONGES.

- f.* ·5934 **Lendenfeld, R. von.** Monograph of the horny sponges.
Lond. 1889.
- f.* ·5934 **Indian Museum.** Indian Triaxonia collected by *In-*
(267) *vestigator.* By F. E. Schulze. Calcutta 1902.
- 5934(42) **Bowerbank, J. S.** Monograph of the British Spongiadæ.
4 vols. Lond. 1864-82.

·5935 CNIDARIA.

- 5935(42) **Johnston, G.** History of the British zoophytes. 2 vols.
Lond. 1847.

·5936 CORALS.

- f.* ·5936 **Klunzinger, C. B.** Die Korallthiere des Rothen Meeres.
(2675) 3 vols. Berl. 1877-79.
- f.* ·5936 **Kent, W. Saville-** The Great barrier reef of Australia.
(94) Lond. 1893.
- f.* ·59362 **Thomson, J. A., and Simpson, J. J.** Account of
alcyonarians collected by the *Investigator.*
Calcutta 1909.
- B.M. ·59366 **British Museum.** Catalogue of madreporarian corals.
By G. Brook and H. M. Bernard. Vol. 1→
Lond. 1893→

·5937 HYDROZOA.

- f.* ·5937 **Allman, J.** Monograph of the gymnoblastic or tubularian
hydroids. Lond. 1872.
- 5937(∞) **Mayer, A. G.** Medusæ of the world. 3 vols.
Wash. 1910.
- f.* ·5937 **Huxley, T. H.** Oceanic Hydrozoa. Lond. 1859.
(265)
- f.* ·5937 **Forbes, E.** Monograph of the British naked-eyed
(42) Medusæ. Lond. 1848.
- 5937(42) **Hincks, T.** History of the British hydroid zoophytes.
2 vols. Lond. 1868.
- f.* ·5937(7) **Nutting, C. C.** American hydroids. Pt. 1→
Wash. 1900→

·59 ZOOLOGY

·5938 CTENOPHORA.

- 5938 **Mayer, A. G.** Ctenophores of the Atlantic coast of
(261) North America. Wash. 1912.

·5939 ECHINODERMATA.

- B.M. ·5939 **British Museum.** Catalogue of the British echinoderms.
(42) By F. J. Bell. Lond. 1892.
- f. ·59392 **Indian Museum.** Echinoderma. By R. Koehler.
Calcutta 1909.
- f. ·59392 — Shallow-water Asteroidea. By R. Koehler.
Calcutta 1910.
- f. ·59396 — Deep-sea Holothurioidea. By R. Koehler and C.
(267) Vaney. Calcutta 1905.
- f. ·59396 — Littoral Holothurioidea. By R. Koehler and C.
(267) Vaney. Calcutta 1908.

·594 MOLLUSCA.

- 594 **Macgillivray, W.** The Conchologist's text-book.
Edin. 1845.
- 594 **Tryon, G. W.** Structural and systematic conchology.
3 vols. Philad. 1882-84.
- 594 **Macgillivray, W.** History of the molluscous animals
(4125) of the counties of Aberdeen, Kincardine, and Banff.
Lond. 1843.
- 594(42) **Adams, L. E.** Collector's manual of British land and
fresh water shells. Lond. 1884.
- B.M. ·594 **British Museum.** Catalogue of the British species of
(42) Pisidium. By B. B. Woodward. Lond. 1913.
- 594(42) **Brown, T.** Illustrations of the land and freshwater
conchology of Great Britain and Ireland.
Lond. 1845.
- 594(42) **Sowerby, G. B.** Popular British conchology.
Lond. 1854.
- 594(42) **Taylor, J. W.** Monograph of the land and freshwater
Mollusca of the British Isles. [Vol. 1→]
Leeds 1900→

·59 ZOOLOGY

- 594(81) **MacFarland, F. M.** Mollusca of Branner-Agassiz expedition. Stanford Univ. 1909.
- f.* ·59436 **Alder, J., and Hancock, A.** Monograph of the British (42) nudibranchiate Mollusca. 2 vols. Lond. 1845-1910.

·5947 POLYZOA.

- f.* ·5947 **Allman, G. J.** Monograph of the fresh-water Polyzoa. Lond. 1856.
- 5947(42) **Hincks, T.** History of the British marine Polyzoa. 2 vols. Lond. 1880.

·5949 TUNICATA.

- 5949 **Alder, J., and Hancock, A.** British Tunicata—an unfinished monograph. Vol. 1→ Lond. 1905→
- f.* ·5949 **Brooks, W. K.** The Genus Salpa. Baltimore 1893.
- 5949 **Hopkinson, J.** Bibliography of the Tunicata, 1469-1910. Lond. 1913.

·595 ARTICULATA.

·5951 WORMS.

- f.* ·5951 **M'Intosh, W. C.** Monograph of the British annelids. (42) Vol. 1→ Lond. 1873→
- 59511 **Linstow, O. von.** Compendium der Helminthologie. Mit Nachtrag—die Litteratur der Jahre, 1878-1889. 2 pts. Hannover 1878-89.
- f.* ·595123 **Graff, L. von.** Monographie der Turbellarien. 2 vols. With atlases. Leip. 1882-99.
- f.* ·595123 — Die Turbellarien als Parasiten und Wirte. Graz 1903.
- 59513 **Schneider, A.** Monographie der Nematoden. Berl. 1866.
- f.* ·59513 **De Man, J. G.** Nematoden der niederländischen (492) Fauna. Leiden 1884.
- B.M. ·59514 **British Museum.** Catalogue of Chaetopoda. By J. H. Ashworth. Pt. 1→ Lond. 1912→
- 59515 **Nachtrieb, H. F.** Leeches of Minnesota. (776) Minneapolis 1912.

·59 ZOOLOGY

·59516 **Beddard, F. E.** Monograph of the order of Oligochaeta.
Oxf. 1895.

·59516 **Ehlers, E.** Die Borstenwürmer. 2 vols.
Leip. 1864-68.

·59518 ROTIFERA.

·59518 **Hudson, C. T., and Gosse, P. H.** Rotifera or wheel-
animalcules. 2 vols. Lond. 1886.

·5952 ARTHROPODA.

B.M. ·5952 **British Museum.** Guide to Crustacea, Arachnida, etc.
Lond. 1910.

·5953 CRUSTACEA.

·5953 **Stebbing, T. R. R.** History of Crustacea. Lond. 1893.

·5953 **Sars, G. O.** Crustacea of Norway. Vol. 1→
(481) Christiania 1895→

·5953^I **Bernard, H. M.** The Apodidae. Lond. 1892.

·5953^I **Baird, W.** Natural history of the British Entomo-
(42) straca. Lond. 1850.

·5953² **Sars, G. O.** Fauna Norwegiæ. Vol. 1. Phyllocarida
(48) and Phyllopoda. Christiania 1896.

·59534 **Brady, G. S.** Monograph of the free and semi-parasitic
(42) Copepoda of the British Islands. 3 vols.
Lond. 1878-80.

·59534 **Scott, T., and A.** British parasitic Copepoda. Vol. 1→
(42) Lond. 1913→

·59534 **Schmeil, O.** Deutschlands freilebende Süßwasser-
(43) Copepoden. 4 pts. Cassel 1892-98.

·59535 **Darwin, C.** Monograph on the sub-class Cirripedia.
2 vols. Lond. 1851-54.

B.M. ·59537^I **British Museum.** Catalogue of the specimens of
amphipodous Crustacea. By C. S. Bate.
Lond. 1862.

f. ·595384^I **Indian Museum.** Catalogue of Indian deep-sea
(267) Crustacea, etc. By A. Alcock. Calcutta 1901.

·595384² **Weymouth, F. W.** True crabs, Brachyura, of Monterey
(794) Bay, California. Stanford Univ. 1910.

·59 ZOOLOGY

·5954 ARACHNIDA.

- 5954 **Fabre, J. H.** Life of the spider. Lond. [1912].
- 5954 **Simon, E.** Histoire naturelle des araignées. Vol. 1→
Paris 1892→
- f. ·5954 **Blackwall, J.** History of the spiders of Great Britain
(42) and Ireland. Lond. 1864.
- 5954(42) **Michael, A. D.** British Oribatidæ. 2 vols.
Lond. 1884-88.
- 5954(42) ——— British Tyroglyphidæ. 2 vols. Lond. 1901-03.
- f. ·5954 **Bösenberg, W.** Die Spinnen Deutschlands.
(43) Stuttg. 1903.
- f. ·5954 **Piersig, R.** Deutschlands Hydrachniden.
(43) Stuttg. 1897/1900.
- 5954(45) **Canestrini, G.** Prospetto dell' acarofauna italiana.
Pts. 1-6. Padova 1885-94.
- B.M. ·5954 **British Museum.** Catalogue of spiders of Burma. By
(592) T. Thorell. Lond. 1895.
- 5954(73) **Emerton, J. H.** Spiders of the United States.
Boston, Mass. 1902.
- 59542 **Christophers, S. R.** Anatomy and histology of ticks.
Calcutta 1906.

·5957 INSECTA.

- B.M. ·5957 **British Museum.** Guide to exhibited series of insects.
[By C. O. Waterhouse.] Lond. 1908.
- 5957 **Wytsman, P.** Genera insectorum. Pt. 1→
Brux. 1902→
- 595702 **Packard, A. S.** Text-book of entomology.
New York 1898.
- 595704 **Badenoch, L. N.** True tales of the insects. Lond. 1899.
- 595704 **Fabre, J. H.** Social life in the insect world.
Lond. 1912.
- 595705 **E. Entomologist, The.** Vol. 1→ Lond. [1842]→
- 595705 **Entomologist's annual, The.** 1855-1874.
E.A. Lond. 1855-74.
- 595705 **Entomologist's monthly magazine, The.** Vol. 3→
E.M. Lond. 1867→

59 ZOOLOGY.

5957(28) **Miall, L. C.** Natural history of aquatic insects.
Lond. 1903.

5957(4) **Judeich, J. F., and Nitsche, H.** Lehrbuch der mittel-europäischen Forstinsektenkunde. 2 vols.
Wien 1895.

5957(42) **Staveley, E. F.** British insects. Lond. 1871.

5957(54) **Lefroy, H. Maxwell-**. Indian insect life. Calcutta 1909.

5957 **Folsom, J. W.** Entomology, with special reference to
: 591 its biological and economic aspects. Philad. 1914.

59571 **Avebury, Sir J. Lubbock, 1st baron.** Monograph of
the Collembola and Thysanura. Lond. 1873.

59572 ORTHOPTERA.

B.M. 59572 **British Museum.** Synonymic catalogue of Orthoptera
[including those in the British Museum]. By W. F.
Kirby. 3 vols. Lond. 1904-10.

59572 **Miall, L. C., and Denny, A.** The Cockroach.
Lond. 1886.

59572 **Lucas, W. J.** Monograph of the British Orthoptera.
(42) Lond. 1920.

595727 **Shiraki, T.** Acrididen Japans. [Tokyo] 1910.
(52)

595727 **Morse, A. P.** Further researches on North American
(7) Acridiidae. Wash. 1907.

595729 **Shiraki, T.** Monographie der Grylliden von Formosa.
(512) Taihoku 1911.

59574 NEUROPTERA.

59573 **Lucas, W. J.** British dragonflies—Odonata.
(42) Lond. 1900.

59575 HEMIPTERA.

59575 **Buckton, G. B.** Monograph of the British Aphides.
(42) 4 vols. Lond. 1876-83.

59575 **Newstead, R.** Monograph of the Coccidæ of the British
(42) Isles. 2 vols. Lond. 1901-03.

595752 **Cholodovsky, N.** Die Coniferen-Läuse Chermes.
Berl. 1907.

B.M. ·595753 **British Museum.** Synonymic catalogue of Homoptera. Pt. 1. Cicadidae. By W. L. Distant.
Lond. 1906.

·595753 **Buckton, G. B.** Monograph of the British Cicadæ or
(42) Tettigidæ. 2 vols. Lond. 1890-91.

·595753 **Edwards, J.** Hemiptera-homoptera of the British
(42) Isles. Lond. 1896.

B.M. ·595754 **British Museum.** Catalogue of heteropterous Hemiptera. By F. Walker. 8 pts. Lond. 1867-73.

·595754 **Douglas, J. W., and Scott, J.** British Hemiptera.
(42) Vol. 1. Hemiptera-heteroptera. Lond. 1865.

·595754 **Saunders, E.** The Hemiptera heteroptera of the British
(42) Islands. Lond. 1892.

·59576 COLEOPTERA.

·59576 **Fowler, W. W.** Coleoptera of the British Isles. 6
(42) vols. Lond. 1887-1913.

·59577 DIPTERA.

B.M. ·59577 **British Museum.** Monograph of the Culicidæ or mosquitoes received at the British Museum. By F. V. Theobald. 5 vols., and vol. of plates.
Lond. 1901-10.

·59577 **Coblentz, W. W.** Physical study of the firefly.
Wash. 1912.

·59577 **Fabre, J. H.** Life of the fly. Lond. [1913].

·59577 **Giles, G. M.** Handbook of the gnats or mosquitoes.
Lond. 1900.

·59577 **Hewitt, C. G.** The House fly. Manch. 1910.

B.M. ·59577 **Lang, W. D.** Handbook of British mosquitoes.
(42) Lond. 1920.

·59577 **Theobald, F. V.** Account of British flies. Vol. 1→
(42) Lond. 1892→

·59577 **Verrall, G. H.** Platypezidæ, Pipunculidæ, and Syrphidæ of Great Britain. Lond. 1901.

·59577 — Stratiomyidæ and succeeding families of the
(42) Diptera brachycera of Great Britain. (Systematic list of the Palæarctic Dipteral brachycera.)
Lond. 1909.

59577(7) **Howard, L. O.** Mosquitoes of North and Central America and the West Indies. Vol. 1→ Wash. 1912→

B.M. 59577¹ **Lang, W. D.** Map showing the known distribution (42) in England and Wales of the Anopheline mosquitoes. With explanatory texts and notes. Lond. 1918.

B.M. 59577² **British Museum.** Handbook of the tsetse-flies. By E. E. Austen. Lond. 1911.

B.M. 59577² — Monograph of the tsetse-flies, based on the collection in the British Museum. By E. E. Austen. Lond. 1903.

B.M. 59577² **Bezzi, M.** Syrphidæ of the Ethiopian region. (63) Lond. 1915.

59578 LEPIDOPTERA.

59578 **Janet, A.** Les Papillons. Paris 1902.

f. 59578 **Kirby, W. F.** European butterflies and moths. (4) Lond. 1882.

59578(42) **Barrett, C. G.** The Lepidoptera of the British Islands. 11 vols. Lond. 1893-1907.

59578 **Buckler, W.** Larvæ of the British butterflies and moths. (42) 9 vols. Lond. 1886-1901.

59578 **Morris, F. O.** History of British butterflies. (42) Lond. 1891.

59578 — Natural history of British moths. 4 vols. (42) Lond. 1891.

59578 **Tutt, J. W.** British Noctuæ and their varieties. 4 vols. (42) Lond. 1891-92.

59578 — Natural history of British Lepidoptera. Vol. 1→ (42) Lond. 1899→

59578 **Rainbow, W. J.** Guide to study of Australian butterflies. (94) Melbourne 1907.

B.M. 59578¹ **British Museum.** Illustrations of typical specimens of Lepidoptera heterocera. By A. G. Butler, etc. 9 vols. Lond. 1877-93.

59578² **Stainton, H. T.** Natural history of the Tineina. 13 vols. Lond. 1855-73.

- 595782(4) **Stainton, H. T.** Tineina of Southern Europe. Lond. 1869.
 595782 ——— Tineina of Syria and Asia Minor. Lond. 1867.
 (56)
 595782(7) **Clemens, B.** Tineina of North America. Lond. 1872.
 f. 595783 **Seitz, A.** Macrolepidoptera of the world. Ed. A. S.
 (∞) Vol. 1→ Stuttg. 1906→
 595785 **Packard, A. S.** Geometrid moths or Phalænidae of the
 (73) United States. Wash. 1876.
 f. 595787 **Moore, F. C.** Silkworm moths of India: six plates.
 (54)

59579 HYMENOPTERA.

- B.M. 59579 **British Museum.** Revision of the Ichneumonidae.
 Pt. 1→. By C. Morley. Lond. 1912→
 59579 **Cowan, T. W.** The Honey bee. Lond. [1904].
 59579 **Sladen, F. W. L.** The Humble bee. Lond. 1912.
 59579 **Wheeler, W. M.** Ants. New York 1910.
 59579 **Cameron, P.** Monograph of the British phytophagous
 (42) Hymenoptera. 4 vols. Lond. 1882-93.
 59579 **Morley, C.** Ichneumonologia Britannica.
 (42) Plymouth 1903.
 59579 **Saunders, E.** Hymenoptera aculeata of the British
 (42) Islands. Lond. 1896.
 B.M. 595792 **British Museum.** Catalogue of British Hymenoptera.
 (42) By C. Morley. Lond. 1910.

596 VERTEBRATES.

- 596(22) **Dehaut, E. G.** Contributions à l'étude de la vie verté-
 brée insulaire. Paris 1920.
 596 **Eigenmann, C. H.** Cave vertebrates of America.
 (24 : 7) Wash. 1909.
 596(4) **Schmiedeknecht, O.** Die Wirbeltiere Europa's mit
 Berücksichtigung der Faunen von Vorderasien und
 Nordafrika. Jena 1906.
 596(4II) **Brown, J. A. Harvie-, and Buckley, T. E.** Vertebrate
 fauna of Sutherland, Caithness, and West Cromarty.
 Edin. [1887].

59 ZOOLOGY

596	Evans, A. H., and Buckley, T. E.	Vertebrate fauna of the Shetland Islands.	Edin. 1899.
(4111)			
596	Buckley, T. E., and Brown, J. A. Harvie-	Vertebrate fauna of the Orkney Islands.	Edin. 1891.
(4112)			
596	Brown, J. A. Harvie-, and Buckley, T. E.	Vertebrate fauna of the Outer Hebrides.	Edin. 1888.
(4117)			
596(412)	—	Vertebrate fauna of the Moray basin.	2 vols.
Edin. 1895.
596	Sim, G.	Vertebrate fauna of "Dee".	Abd. 1903.
(4125)			
596(413)	Brown, J. A. Harvie-	Fauna of the Tay basin and Strathmore.	Edin. 1906.
596	Brown, J. A. Harvie-, and Buckley, T. E.	Vertebrate fauna of Argyll and the Inner Hebrides.	Edin. 1892.
(4138)			
596(414)	Evans, A. H.	Fauna of the Tweed area.	Edin. 1911.
B.M. 596	British Museum.	Guide to the British vertebrates.	
(42)			Lond. 1910.

·597 FISHES.

- B.M. '597 **British Museum.** Catalogue of fishes. By A. Günther.
8 vols. Lond. 1859-70.
- B.M. '597 — — By G. A. Boulenger. Vol. 1→
Lond. 1895→
- B.M. '597 — Guide to gallery of fishes, etc. Lond. 1908.
- '597 **Dean, B.** Fishes, living and fossil. New York 1895.
- '597014 **Jordan, D. S., and Evermann, B. W.** Genera of
fishes, from Linnæus to Cuvier.
Stanford Univ. 1917.
- '59702 **Günther, A. C. L. G.** Introduction to the study of
fishes. Edin. 1880.
- '59706 **North Sea Fisheries**—Investigation committee. Re-
(2612) ports. 1→ Lond. 1905→
- '59706 **Fishery board for Scotland.** Annual report. 1→
(41) Edin. 1883→
- '59706 — Salmon fisheries. 1911→ Lond. 1912→
(41)

- 59706 **Fishery board for Scotland.** Scientific investigations.
(41) 1909→ Lond. 1911→
- 59706 **Department of agriculture and technical instruction**
(415) **for Ireland.** Sea and inland fisheries of Ireland.
Reports. 1897→ Dubl. 1898→
- 59706 **Madras fisheries bureau.** Bulletins. No. 1→
(548) Madras 1910→
- 59706 **United States Commission of fish and fisheries.**
(73) Reports. 1873/4-1885. Wash. 1876-87.
- 597(4) **Europe.** Catalogue des poissons du nord de l'Europe.
Copenhagen 1914.
- B.M. 597 **British Museum.** Guide to the British fresh-water
(42) fishes. Lond. 1917.
- 597(42) **Day, F.** Fishes of Great Britain and Ireland. 2 vols.
Lond. 1880-84.
- f. 597(42) **Houghton, W.** British fresh water fishes.
Lond. [1879].
- f. 597(48) **Fries, B., and others.** History of Scandinavian fishes.
Revised by F. A. Smitt. 3 vols. Stockh. 1892-95.
- B.M. 597(6) **British Museum.** Catalogue of the fresh-water fishes
of Africa. By G. A. Boulenger. 4 vols.
Lond. 1909-16.
- 597(72) **Meek, S. E.** Fresh-water fishes of Mexico.
Chicago 1904.
- 597(81) **Starks, E. C.** Fishes of Stanford expedition to Brazil.
Stanford Univ. 1913.
- f. 597 **Gemmell, J. F.** Teratology of fishes. Glasg. 1912.
: 5912
- 597 : 639 **Cunningham, J. T.** Natural history of marketable fishes
of British Islands. Lond. 1896.
- 5973 **Dean, B.** Chimæroid fishes. Wash. 1906.
- 5975 **Calderwood, W. L.** Life of the salmon. Lond. 1907.
- 5975(41) — Salmon rivers and lochs of Scotland. Lond. 1909.
- 5975(94) **Wilson, Sir S.** Salmon at the antipodes. Lond. 1879.

59 ZOOLOGY

- 5975 **Starks, E. C.** Osteology of certain scombroïd fishes.
: 591471 Stanford Univ. 1911.

5976 AMPHIBIA.

- B.M. 5978 **British Museum.** Catalogue of Batrachia salientia. By
A. Günther. Lond. 1858.
B.M. 5978 — — By G. A. Boulenger. Lond. 1882.
5978(4) **Boulenger, G. A.** Tailless batrachians of Europe. 2
vols. Lond. 1897-98.
5978(7) **Wright, A. H.** North American Anura. Wash. 1914.
B.M. 5979 **British Museum.** Catalogue of the Batrachia gradientia
s. caudata and Batrachia apoda. By G. A. Bou-
lenger. Lond. 1882.

5981 REPTILES.

- B.M. 5981 **British Museum.** Catalogue of marine reptiles of the
(26) Oxford Clay. By C. W. Andrews. Vol. 1→
Lond. 1910→
f. 5981 **Günther, A. C. L. G.** Reptiles of British India.
(54) Lond. 1864.
B.M. 59811 **Boulenger, G. A.** Monograph of the Lacertidæ. Vol.
1→ Lond. 1920→
B.M. 59811 **British Museum.** Catalogue of lizards. By G. A.
Boulenger. 3 vols. Lond. 1885-87.
B.M. 59812 — Catalogue of colubrine snakes. By A. Günther.
Lond. 1858.
B.M. 59812 — Catalogue of snakes. By G. A. Boulenger. 3 vols.
Lond. 1893-96.
B.M. 59813 — Catalogue of the chelonians, rhynchocephalians,
and crocodiles. By G. A. Boulenger. Lond. 1889.
B.M. 59813 — Gigantic land tortoises. By A. Günther.
Lond. 1877.

5982 BIRDS.

- B.M. 5982 **British Museum.** Catalogue of birds. By R. B.
Sharpe, etc. 27 vols. Lond. 1874-98.

- B.M.·5982 **British Museum.** Catalogue of the collection of birds' eggs in the British Museum. By E. W. Oates and S. G. Reid. 5 vols. Lond. 1901-12.
- B.M.·5982 — — Corrections. By F. C. R. Jourdain. [*The Ibis*, Oct., 1913.]
- B.M.·5982 — — Guide to the gallery of birds in the department of zoology. [By W. R. Ogilvie-Grant.] Lond. 1905.
- B.M.·5982 — — Hand-list of genera and species of birds. By R. B. Sharpe. 5 vols. Lond. 1899-1909.
- — Index. Lond. 1912.
- 5982 **Greene, W. T.** Feathered friends, old and new. Lond. 1896.
- f.·5982 **Nitzsch, C. L.** Pterylography. Lond. 1867.
- 5982 **Pike, O. G.** Through birdland byways with pen and camera. Lond. [1910].
- 598203 **Newton, A., and Gadow, H.** Dictionary of birds. Lond. 1896.
- 598204 **Turner, W.** Turner on birds. Ed. A. H. Evans. Camb. 1903.
- 598207 **Coues, E.** Handbook of field and general ornithology. Lond. 1890.
- 5982084 **Thorburn, A.** A Naturalist's sketch book. Lond. 1919.
- 016 **Mullens, W. H., and Swann, H. K.** Bibliography of : 5982 British ornithology. Lond. 1917.
- f.·5982(4) **Dresser, H. E.** Eggs of the birds of Europe. 2 vols. Lond. 1910.
- 5982(4I) **Gordon, S. P.** Birds of the loch and mountain. Lond. [1907].
- 5982(4I) — — Hill birds of Scotland. Lond. 1915.
- 5982 **Saxby, H. L.** Birds of Shetland. Edin. 1874.
- (4III)
- 5982 **Selous, E.** The Bird watcher in the Shetlands. Lond. 1905.
- (4III)
- 5982 **Graham, H. D.** Birds of Iona and Mull. Edin. 1890.
- (4III7)

- 5982 **Gray, R.** Birds of the west of Scotland. Glasg. 1871.
(4117)
- 5982 **Blackburn, Mrs. H.** Birds from Moidart and elsewhere.
(4138) Edin. 1895.
- 5982 **Muirhead, G.** Birds of Berwickshire. 2 vols.
(4145) Edin. 1889-95.
- 5982 **Gladstone, H. S.** Birds of Dumfriesshire. Lond. 1910.
(4148)
- 5982(42) **Arnold, E. L.** Bird life in England. Lond. 1887.
- 5982(42) **Dixon, C.** Among the birds in northern shires.
Lond. 1900.
- 5982(42) — Game birds and wild fowl of the British Islands.
Sheffield 1900.
- 5982(42) — Our favourite song birds. Lond. 1897.
- 5982(42) **Harting, J. E.** Handbook of British birds. Lond. 1872.
- 5982(42) **Hudson, W. H.** Birds and man. Lond. 1901.
- 5982(42) **Kearton, R.** British birds' nests. Lond. 1895.
- 5982(42) — Our rarer British breeding birds, their nests, eggs,
and summer haunts. Lond. 1900.
- 5982(42) **Kirkman, F. B. B.** The British bird-book. 4 vols.
Lond. 1911-13.
- 5982(42) **Macgillivray, W.** History of British birds. 5 vols.
Lond. 1837-52.
- 5982(42) **Saunders, H.** Illustrated manual of British birds.
Lond. 1899.
- 5982(42) **Thomson, A. L.** Britain's birds and their nests.
Lond. 1910.
- 5982(42) **Turner, E. L., and Bahr, P. H.** The Home-life of
some marsh-birds. Lond. 1907.
- 5982 **Dixon, C.** Bird-life of London. Lond. 1909.
(421)
- 5982 **Valentine, J. T. Tristram-** London birds and beasts.
(421) Lond. 1895.

59 ZOOLOGY

- 5982(7) **Baird, S. F., and others.** History of North American birds. Land birds. 3 vols. and plates.
Boston [Mass.] 1874.
- 5982(7) ——— Water birds of North America. 2 vols.
Boston [Mass.] 1884.
- 5982(7) **Blanchan, N.** Birds that hunt and are hunted.
New York 1899.
- 5982(7) **Elliot, D. G.** North American shore birds. Lond. 1895.
- 5982(7) **Reed, C. A.** North American birds eggs.
New York 1904.
- 5982 **Gosse, P. H.** Birds of Jamaica. (Illustrations)
(7292) Lond. 1847 (1849).
- 5986(42) **Grouse disease committee.** The Grouse in health and disease. 2 vols. Lond. 1911.
- 5986(42) ——— ——— Ed. A. S. Leslie. Lond. 1912.
- 5989(41) **Macpherson, H. B.** The Home life of a golden eagle photographed and described. Lond. 1910.

599 MAMMALS.

- 599 **Flower, Sir W. H., and Lydekker, R.** Mammals, living and extinct. Lond. 1891.
- 599 **Osborn, H. F.** The Age of mammals. New York 1910.
- 599 **Schmidt, O.** The Mammalia in their relation to primeval times. Lond. 1885.
- 599(∞) **Sclater, W. L., and P. L.** Geography of mammals.
Lond. 1899.
- B.M. 599 **British Museum.** Catalogue of the mammals of
(4) Western Europe. By G. S. Miller. Lond. 1912.
- 599(42) **Bell, T.** History of British quadrupeds, including the Cetacea. Lond. 1874.
- 599(42) **Harting, J. E.** British animals extinct within historic times. With some account of British wild white cattle. Lond. 1880.
- f. 599(42) **Millais, J. G.** The Mammals of Great Britain and Ireland. 3 vols. Lond. 1904-06.

59 ZOOLOGY

- 599(72) **Elliot, D. G.** Land and sea mammals of Middle America and the West Indies. 2 pts. Chicago 1904.
- 599 : 575 **Parker, W. K.** On mammalian descent. Lond. 1885.
- B.M. 5992 **British Museum.** Catalogue of Marsupialia and Monotremata. By O. Thomas. Lond. 1888.
- B.M. 5994 — Catalogue of the Chiroptera. By K. Anderson. Vol. 1→ Lond. 1912→
- B.M. 5995 — Guide to whales, porpoises, and dolphins. [By R. Lydekker.] Lond. 1909.
- B.M. 5996I — Guide to elephants. [By C. W. Andrews.] Lond. 1908.
- 5997 **Winans, W.** Deer breeding for fine heads. Lond. 1913.
- 5997(5) **Indian Museum.** Catalogue of Asiatic horns and antlers. By T. Benthham. Calcutta 1908.
- B.M. 5997 **British Museum.** Catalogue of heads and horns of (54) Indian big game. By R. Lydekker. Lond. 1913.
- B.M. 5997I — Catalogue of ungulate mammals. By R. Lydekker. 5 vols. Lond. 1913-16.
- B.M. 5997I — Guide to the great game animals, etc. [By R. Lydekker.] Lond. 1907.
- B.M. 599735 — Catalogue of ruminant Mammalia. By J. E. Gray. Lond. 1872.
- 59975 **Lane, C. H.** Rabbits, cats, and covies. Lond. 1903.
- 59975 **Youatt, W.** The Dog. Lond. 1874.
- 5998 **Hartmann, R.** Anthropoid apes. Lond. 1885.
- 5999 **Hopf, L.** The Human species. Lond. 1909.

·619 VETERINARY SCIENCE.

- 619 **Friedberger, F., and Fröhner, E.** Lehrbuch der speciellen Pathologie und Therapie der Haustiere. 2 vols. Stuttg. 1889.
- 619 **Leighton, G.** The Modern veterinary adviser. Ed. G. L. 5 vols. Lond. 1910-11.
- 619 **Mayo, N. S.** Diseases of animals. New York 1911.
- 619 **Moore, V. A.** Pathology and differential diagnosis of infectious diseases of animals. Ithaca, N.Y. 1908.
- 619 **Strangeways, T.** Veterinary anatomy. Edin. 1886.
- 619 **Thompson, H.** Elementary lectures on veterinary science. Lond. 1908.
- 619 **Williams, W.** Principles and practice of veterinary medicine. Edin. 1888.
- 619 ——— Principles and practice of veterinary surgery. Edin. 1886.
- 61905 **Archiv für wissenschaftliche und praktische Thier-**
A.T. heilkunde. Vol. 12→ Berl. 1886→
- 61905 **Jahres-Bericht über die Fortschritte der Tier-**
J.F. Chemie. Vol. 15→ Wiesbaden 1886→
- 61905 **Journal of comparative pathology and therapeutics.**
J.C. Vol. 1→ Edin. 1888→
- 619(682) **Transvaal—Department of agriculture.** Veterinary bacteriological laboratories. Pretoria 1909.
- 619 **Nocard, E. I. E., and Leclainche, E.** Maladies micro-
: 5768 biennes des animaux. Paris 1898.
- 619 **Smith, F.** Manual of veterinary physiology.
: 612 Lond. 1912.
- 619 **Niemann, F., and Profé, O.** Grundriss der Veterinär-
: 6149 Hygiene. Berl. 1903.

619 VETERINARY SCIENCE

- 619 **Smith, F.** Manual of veterinary hygiene. Lond. 1905.
: 6149
- 6191 **Axe, J. W.** The Horse—its treatment in health and
disease. 9 vols. Lond. 1907.
- 6191 **Fitzwygram, Sir F. W.** Horses and stables.
Lond. 1911.
- 6192 **Armatage, G.** Every man his own cattle doctor.
Lond. 1882.
- 6192 **Gresswell, G.** Diseases and disorders of the ox.
Lond. 1889.
- 6192 **Hamilton, D. J.** Infectious pleuro-pneumonia of cattle.
Abd. 1889.
- 6192 **Walley, T.** The Four bovine scourges. Edin. 1879.
- In ·61921 **Hamilton, D. J., and Young, J. M.** Relationship of
: 616995 human tuberculosis to that of bovines. Abd. 1903.
YOU.
- 61921 **Nocard, E. I. E.** Animal tuberculoses and their rela-
: 616995 tion to human tuberculosis. Lond. 1895.
- In ·61921 **Young, J. M.** Milk of tuberculous cows. [Abd.] 1903.
: 616995
- In ·61921 — Value of tuberculin as a test. [Abd.] 1902.
: 616995
- 61931 **M'Gowan, J. P.** Investigation into the disease of sheep
called "scrapie". Edin. 1914.
- 61931 **Meyer, A. W.** Hemolymph nodes of the sheep.
Stanford Univ. 1914.
- 6194 **United States—Department of Agriculture.** Hog
cholera. Wash. 1889.

·62 ENGINEERING.

- 6201 **Ewing, Sir J. A.** The Strength of materials. Camb. 1903.
- 6205 E **Engineering:** an illustrated weekly journal. Vol. 105→ Lond. 1918→
- 6206 I.E.P. **Institution of civil engineers.** Minutes of proc. Vol. 47-49, 51-55, 57-72, 74-78, 107-126, 128→ Lond. 1877→

·621 MECHANICAL ENGINEERING.

- 621022 **Jamieson, A.** Text-book on applied mechanics. 2 vols. Lond. 1903.
- 621022 **Low, D. A.** Applied mechanics. Lond. 1910.
- 621022 **Perry, J.** Applied mechanics. Lond. 1905.
- 621023 **Jamieson, A.** Elementary manual on applied mechanics. Lond. 1902.
- 62108 **French, J. W.** Modern power generators. Lond. 1908.

·6211 STEAM ENGINEERING.

- 6211022 **Ewing, Sir J. A.** The Steam engine. Camb. 1902.
- 6211022 **Jamieson, A.** Text-book on steam and steam engines. Lond. 1901.
- 6211022 **Perry, J.** The Steam engine. Lond. 1900.
- 6211023 **Jamieson, A.** Elementary manual on steam and steam engines. Lond. 1902.
- 62111 **Gentsch, W.** Steam turbines. Lond. 1906.
- 621124 **Durand, W. F.** Researches on the screw propeller. Wash. 1907.
- 62113 **Goss, W. F. M.** Superheated steam. Wash. 1910.
- 6211343 — High steam pressures. Wash. 1907.

·62 ENGINEERING

·6212 WATER ENGINEERING.

·6213 ELECTRICAL ENGINEERING.

- 621302 **Heather, H. J. S.** Electrical engineering.
Lond. [1912].
- 621308 **Munro, J., and Jamieson, A.** Pocket-book of electrical
rules and tables. Lond. 1903.
- 621312 **Hare, A. T.** Construction of large induction coils.
Lond. 1900.
- 6213121 **Kinzbrunner, C.** Testing of continuous current
machines. Lond. 1904.
- 62133 **Gerard, E.** Traité complet d'électrotraction.
Brux. 1897.

·6214 GAS ENGINEERING.

- 6214 **Newbigging, T.** Handbook for gas engineers.
Lond. 1898.
- 6215 **Ewing, Sir J. A.** Mechanical production of cold.
Camb. 1908.

·63 AGRICULTURE.

- 63 **Benson, O. H., and Betts, G. H.** Agriculture and the farming business. Lond. [1917].
- 63 **Curtis, C. E.** Estate management. Lond. 1911.
- 63 **Henderson, R.** The Estate manager. Edin. 1910.
- 63 **Hunt, T. F.** How to choose a farm. New York 1911.
- 63 **Roberts, I. P.** The Farmstead. New York 1911.
- 63 **Smith, H. H.** Principles of landed estate management. Lond. 1898.
- 6302 **Bailey, L. H.** Principles of agriculture. New York 1912.
- 6302 **Fream, W.** Elements of agriculture. Lond. 1914.
- 6302 **Morton, J. C.** Labour. Lond.
- 6302 **Muir, J.** Agriculture, practical and scientific. Lond. 1895.
- 6302 **Shepherd, E. T.** Practical farming. Lond. 1906.
- 6302 **Stephens, H.** Book of the farm. In part re-written by J. MacDonald. 3 vols. Edin. 1908.
- 6302 **Tod, W. M.** Farming. Lond. 1903.
- 6302 **Warren, G. F.** Elements of agriculture. New York 1909.
- 6302 **Youatt, W.** The Complete grazier. Re-written by W. Fream. Lond. 1908.
- Ref.* ·6303 **Bailey, L. H.** Cyclopedia of American agriculture. Ed. L. H. B. 4 vols. New York 1907-09.
- Ref.* ·6303 **Green, C. E., and Young, D.** Encyclopædia of agriculture. 4 vols. Edin. [1907-09].
- 6303 **Morton, J. C.** Cyclopedia of agriculture, practical and scientific. 2 vols. Glasg. 1869.

·63 AGRICULTURE

- Ref.* ·6303 **Wright, R. P.** Standard cyclopedia of modern agriculture. 12 vols. Lond. 1908-11.
- 6304 [Arbuthnot, J.] True method of treating light hazely ground. Edin. 1811.
- Λ **Beaton, H., Mrs.** Notes on farming. Peterhead 1905.
- 6304 [Grant, Sir A.] Chief obstacles to the improvement of land. Abd. 1760.
- 6304 **Haggard, Sir H. Rider.** A Farmer's year. Lond. 1906.

·6305 PERIODICALS.

- 6305 A.G. **Agricultural gazette.** Vol. 92→ Lond. 1920→
- 6305 A.J. **Agricultural journal of the Union of South Africa.**
Vol. 2→ Pretoria 1911→
- 6305 A.A. **Annales agronomiques.** Vol. 22→ Paris 1896→
- 6305 A.S. **Annales de la science agronomique.** Ser. 2. 1896→
Paris 1896→
- 6305 **Annuaire international de legislation agricole.**
A.I.L. 1916→ Rome 1917→
- 6305 **Annuaire international de statistique agricole.**
A.I.S. 1915/16→ Rome 1917→
- 6305 J.L. **Journal für Landwirthschaft.** Vol. 39→ Berl. 1891→
- 6305 J.R. **Journal of agricultural research.** Vol. 1→
Wash. [1914]→
- 6305 J.S. **Journal of agricultural science.** Vol. 1→
Camb. 1905→
- 6305 L.J. **Landwirtschaftliche Jahrbücher.** With supplements.
Vol. 20→ Berl. 1891→
- 6305 L.V. **Landwirtschaftliche Versuchs-Stationen.** Vol. 39→
Berl. 1891→
- 6305 N.B. **North British agriculturist.** Vol. 65→ Edin. 1913→
- 6305 S.F. **Scottish farmer.** Vol. 8→ Glasg. 1900→
- 6305 S.J. **Scottish journal of agriculture.** Vol. 1→
Edin. [1918]→
- 6305 S.S. **Soil science.** Vol. 1→ New Brunswick, N.J. [1916]→

*63 AGRICULTURE

*6305	Agricultural news.	Vol. 13→	Lond. [1914]→
(729)	A.N.		
*6305:54	Biedermann's Zentralblatt	[für Agrikulturchemie	
B.C.	<i>till 1919</i>].	Vol. 33→	Leip. 1904→
*63059	British year-book of agriculture.	1908/09→	
B.Y.			Lond. 1908→

·6306 SOCIETIES.

- *6306 A.S. **Agricultural society of England, Royal.** Journal.
Vol. 1→ London, 1840→
- *6306 I.I. **Imperial Institute.** Bulletin. Vol. 1→
London, [1903]→
- *6306 **International Institute of agriculture.** Bureau of
I.A.A. agricultural intelligence. Bulletins. 1911→
Rome 1911→
- *6306 — Bureau of economic and social intelligence. Bulle-
I.A.E. tins. 1911→ Rome 1911→
- *6306 — Bureau of statistics. Bulletins. 1914→
I.A.S. Rome 1915→
- *6306 B.St. **Ministry (formerly Board) of agriculture and fish-
eries.** Agricultural statistics. 1902→ London, 1903→
- *6306 B.D. — Diseases of animals acts. Proc. 1894→
London, 1895→
- *6306 B.G. — Grants for agricultural education. 1891/92→
London, 1892→
- *6306 B.J. — Journal. Vol. 1-3, 6→ London, 1895→
- *6306 B.L. — Leaflets. 1→ London, 1913→
- *6306 B.S. — Sale of food and drugs acts. Proc. 1901→
London, 1902→
- *6306 — Salmon and fresh-water fisheries acts, etc. Proc.
B.Sa. 1903→ London, 1904→
- *6306 — Sea fisheries acts. Proc. 1903→ London, 1905→
B.Se.
- *6306 — Small holdings and allotments act. Proc. 1908→
B.Sm. London, 1909→
- *6306 B.T. — Tithe acts, etc. Proc. 1901→ London, 1902→

·63 AGRICULTURE

- 6306 R.M. **Rothamsted experimental station.** Memoirs on agricultural science. Vol. 8→ Harpenden 1914→
- 6306 R.R. ——— Reports. 1911→ Harpenden 1912→
- f. ·6306 **Congested districts board, Scotland.** Reports. 1→
(41) C.D. Glasg. [1899]→
- 6306 **Highland and agricultural society of Scotland.**
(41) H. Trans. [Ser. I.], vols. 1-4, 6; Ser. II.→
Edin. 1799→
- 6306 **Agricultural research association.** Proc. 1885→
(4125) A.A. [Abd. 1887]→
- 6306 **North of Scotland College of agriculture.** Bulletins.
(4125) A.N. 1/14→ Abd. 1910→
- 6306 ——— Former students' association. Trans. 1911/12→
(4125) A.N.F. Abd. 1912→
- Ref. ·6306 ——— Minutes and proceedings. 1904/08→ [1908]→
(4125) A.N.M.
- 6306 **West of Scotland agricultural college.** Reports.
(4143) 7→ Glasg. 1906→
- 6306 **Department of agriculture and technical instruction
for Ireland.** Journal. Vol. 2→ Dubl. [1902]→
(415) J.
- 6306 ——— Reports. 1→ Dubl. 1901→
(415) R.
- 6306 **Cockle Park, Northumberland.** County agricultural
(4282) experiment station. Experiments. 1912→
Newcastle-upon-Tyne 1912→
- 6306 **India—Department of agriculture.** Memoirs. Bo-
(54) M.B. tanical ser. Vol. 1→ Calcutta [1906]→
- 6306 ——— ——— Chemical ser. Vol. 1→ Calcutta [1906]→
(54) M.C.
- 6306 ——— ——— Entomological ser. Vol. 1→
(54) M.E. Calcutta [1906]→
- 6306 ——— Review of agricultural operations in India.
(54) R.A. 1904/05→ Calcutta 1906→
- 6306 **Pusa—Agricultural research institute.** Reports.
(54) P.A. 1907/09→ Calcutta 1909→

- f. ·6306 **Union of South Africa—Department of agriculture.**
 (68) R. Reports. 1910/11→ Cape Town 1913→
- 6306(7) **Association of official agricultural chemists of North**
 A.O. America. Journal. Vol. 1→ Baltimore 1916→
- 6306 **Canada—Department of agriculture.** Experimental
 (71) E.R. farms. Reports. 1889→ Ottawa 1890→
- 6306 **West Indies—Department of agriculture.** West
 (729) Indian bulletin. Vol. 1→ Barbados 1900→
- 6306 **American society of agronomy.** Journal. Vol. 12→
 (73) A.A. Wash. 1920→
- 6306 **United States Department of agriculture.** Bureau
 (73) A. of animal industry. Reports. 1→ Wash. 1885→
- 6306 — Experiment station record. Vol. 7→
 (73) EX.R. Wash. 1897→
- 6306 — Year-book. 1894→ Wash. 1895→
 (73) Y.
- 6306 **Connecticut Agricultural experiment station.** Re-
 (746) R. ports. 1881/82, 1884→
 New Haven, Hartford 1882→
- 6306 **New York Agricultural experiment station.** Bulle-
 (747) B. tins. 114→ Geneva, N.Y. 1897→
- 6306 **Wisconsin University—Agricultural experiment**
 (775) R. station. Reports. 12, 14-16, 18-23, 25→
 Madison 1896→
- 6306 **California University—College of agriculture.** Agri-
 (794) B. cultural experiment station. Bulletins. 161→
 Sacramento 1906→
- 6306 — — Reports. 1892/93→ Sacramento 1894→
 (794) R.
- 6306 **New Zealand—Department of agriculture.** Reports.
 (931) R. 1901→ Wellington 1901→
- 6306 **South Australia—Department of agriculture.** Jour-
 (942) J. nal. Vol. 8→ Adelaide 1905→
- 6307 **Reading, University College.** Agricultural education.
 Report. Reading 1910.

·63 AGRICULTURE

- 630821 **Encyclopédie agricole.** *In progress.* Paris 1904→
 ·63083 **Bright, T.** Agricultural surveyor and estate agent's handbook. Lond. 1911.

·6309 HISTORY.

- 6309 **Buschan, G.** Vorgeschichtliche Botanik der Cultur- und Nutzpflanzen der alten Welt. Breslau 1895.
 ·6309 **Candolle, A. de.** Origin of cultivated plants. Lond. 1884.
 ·6309 **Clarke, Sir E.** History of the Board of agriculture, 1793-1822. Lond. 1898.
 ·6309 **Elliot, R. H.** Agricultural changes required by these times. Kelso 1905.
 ·6309(42) **Green, F. E.** A History of the English agricultural labourer, 1870-1920. Lond. 1920.
 ·6309(42) **Jamieson, T.** History of agricultural science in Great Britain. Edin. [1911].
 f.·6309(47) **Direction générale de l'organisation agraire et de l'agriculture.** Les Travaux des commissions agraire, 1907-1911. St. Pétersbourg 1912.

Ref. ·016 Agricultural index. 1→

- :63 White Plains, N.Y., New York 1917→
 ·63092 **Ormerod, E. A.** Eleanor Ormerod, LL.D.: autobiography. Ed. R. Wallace. Lond. 1904.

·63(·) REGIONAL AGRICULTURE.

- 63(∞) **Finch, V. C., and Baker, O. E.** Geography of the world's agriculture. Wash. 1917.
 ·63(213) **Nicholls, H. A. A.** Text-book of tropical agriculture. Lond. 1911.
 ·63(213) **Willis, J. C.** Agriculture in the tropics. Camb. 1909.
 ·63(41) B. **Board of agriculture.** General view of the agriculture [of Scotland]. 29 pts.* Edin., Lond. 1794-97.
 ·63(41) B.A.— General view of the agriculture [of Scotland. Second series]. 30 pts.* Abd., etc., 1795-1816.

* Detailed lists will be found in the 1906 edition of the Science Catalogue.

·63 AGRICULTURE

- 63(415) **Department of agriculture and technical instruction for Ireland.** Ireland, industrial and agricultural.
Dubl. 1902.
- 63(42) **Haggard, Sir H. Rider.** Rural England. 2 vols.
Lond. 1906.
- 63(43) **Dade, H.** Die Deutsche Landwirtschaft unter Kaiser Wilhelm II. 2 vols. Halle a.S. 1913.
- f. ·63(47) **Russia.** La Reforme agraire en Russie.
St. Pétersbourg [1913].
- 63(489) **Faber, H.** Co-operation in Danish agriculture.
Lond. 1918
- 63(489) **Haggard, Sir H. Rider.** Rural Denmark and its lessons.
Lond. 1911.
- 63(492) **Scott, J. W. Robertson-.** War time and peace in Holland.
Lond. 1914.
- 63(52) **Japan.** Outlines of agriculture in Japan. Tokyo 1910.
- 63(54) **Pogson, F.** Manual of agriculture for India.
Calcutta 1883.
- 63(68) **Thomas, O.** Agricultural prospects of South Africa.
Lond. 1904.
- 63(687) **Wallace, R.** Farming industries of Cape Colony.
Lond. 1896.
- 63(71) **Canada.** Canada's fertile northland. Ed. E. J. Chambers. Ottawa 1907.
- 63(7124) **Saskatchewan.** Agricultural credit commission, 1913.
Report. Regina 1913.
- 63(943) **Weedon, T.** Queensland past and present.
Brisbane 1898.

·63 : 33 AGRICULTURAL ECONOMICS.

- 63 : 338 **Fairchild, G. T.** Rural wealth and welfare.
New York 1900.
- 63 : 34 **Collings, J.** Land reform, etc. Lond. 1906.
- 63 : 34 **Curtis, C. E., and Gordon, R. A.** Agricultural tenancies.
Lond. 1910.

·63 AGRICULTURE

·63 : 53 AGRICULTURAL PHYSICS.

- 63 : 53 **King, F. H.** Text-book of the physics of agriculture.
Madison, Wis. 1910.
- 63 : 537 **Lemström, S.** Electricity in agriculture and horticulture.
Lond. 1904.

·63 : 54 AGRICULTURAL CHEMISTRY.

- 63 : 54 **Boussingault, J. B.** Agronomie, chimie agricole et physiologie. 8 vols. Paris 1864-91.
- 63 : 54 **Chamberlain, J. S.** Organic agricultural chemistry.
New York 1917.
- 63 : 54 **Deherain, P. P.** Traité de chimie agricole. Paris 1892.
- 63 : 54 **Forbes, E. B., and Keith, M. H.** Review of literature of phosphorus compounds in animal metabolism.
Wooster 1914.
- 63 : 54 **Fraps, G. S.** Principles of agricultural chemistry.
Easton, Pa. 1917.
- 63 : 54 **Grandeau, L.** Traité d'analyse des matières agricoles.
2 vols. Paris 1897.
- 63 : 54 **Ingle, H.** Manual of agricultural chemistry.
Lond. 1902.
- 63 : 54 **König, J.** Die Untersuchung landwirthschaftlich und gewerblich wichtiger Stoffe. Berl. 1891.
- 63 : 54 **Mayer, A.** Lehrbuch der Agrikulturchemie. 3 vols.
Heidelb. 1901-02.
- 63 : 54 **Rothamsted experimental station.** Six lectures on war. investigations. By R. Warington. Wash. 1892.
- 63 : 54 **Snyder, H.** Chemistry of plant and animal life.
New York 1912.
- 63 : 54 **Stoddard, C. W.** Chemistry of agriculture.
Philad. [1915].
- 63 : 54 **Wiley, H. W.** Principles and practice of agricultural analysis. 2 vols. Easton, Pa. 1906-08.
- Ref.* ·63 **Passon, M.** Kleines Handwörterbuch der Agrikulturchemie. 2 vols. Leip. 1910.
- : 5403

•63 AGRICULTURE

- 63 **Rothamsted experiments.** By Sir J. B. Lawes and
: 54082 Sir J. H. Gilbert. Edin. 1895.
63 — By A. D. Hall. Revised by E. J. Russell.
: 54082 Lond. 1917.

·63 : 55 AGRICULTURAL GEOLOGY.

*63 : 55	Emerson, F. V.	Agricultural geology.	New York 1920.
*63 : 55	McConnell, P.	Agricultural geology.	Lond. 1902
*63 : 55	Marr, J. E.	Agricultural geology.	Lond. 1903.
*63 : 55	Merrill, G. P.	Treatise on rocks, rock-weathering, and soils.	New York 1906.
*63 : 55	Rastall, R. H.	Agricultural geology.	Camb. 1916.
*63 : 55	Stockbridge, H. E.	Rocks and soils.	New York 1906.
*63 : 55	Woodward, H. B.	Geology of soils and substrata.	Lond. 1912.

63:5768 AGRICULTURAL BACTERIOLOGY.

- '63 : 5768 **Conn, H. W.** Agricultural bacteriology. Lond. 1902.
 '63 : 5768 **Ellis, D.** Outlines of bacteriology. Lond. 1909.
 '63 : 5768 **Lipman, J. G.** Bacteria in relation to country life.
 New York 1911.
 '63 : 5768 **Löhnis, F.** Handbuch der landwirtschaftlichen Bak-
 teriologie. Berl. 1910.
 '63 : 5768 — Vorlesungen über landwirtschaftliche Bakteriologie.
 Berl. 1913.
 '63 : 5768 **Percival, J.** Agricultural bacteriology. Lond. 1910.
 '63 : 5768 **Reed, H. S.** Manual of bacteriology.
 Boston [Mass. 1914].

-63 : 58 AGRICULTURAL BOTANY.

·63 : 58	Percival, J.	Agricultural botany.	Lond. 1900.
·63 : 58	Robbins, W. W.	Botany of crop plants.	Philad. [1917].
·63 : 58	Schribaux, E., and Nanot, J.	Éléments de botanique agricole.	Paris 1903.

·63 AGRICULTURE

·63 : 59 AGRICULTURAL ZOOLOGY.

- 63 : 59 **Theobald, F. V.** Agricultural zoology. Edin. 1913.
·63 **Guenaux, G.** Entomologie et parasitologie agricoles.
: 59145 Paris 1904.

·63 : 657 AGRICULTURAL BOOK-KEEPING.

- 63 : 657 **Kersey, H. W.** Book-keeping, suitable for farmers, etc.
Lond.
·63 : 657 **Meats, T. W.** Agricultural accounts. Lond. 1912.
·63 : 657 **Orwin, C. S.** Farm accounts. Camb. 1914.
·63 : 657 **Peet, J. O., and Taylor, H.** Principles and practice of
book-keeping for the farm, etc. Reading 1905.
·63 : 657 **Roberts, I. P.** The Farmers' business handbook.
New York 1911.
·63 : 657 **Taylor, H., and Peet, J. O.** Principles and practice of
book-keeping for the farm, garden, dairy, and estate.
Huddersfield, 1920.
·63 : 657 **Thomson, A. W.** Principles and practice of book-
keeping and estate office-work. Lond. 1901.
·63 : 72 **Taylor, S.** Modern homesteads, a treatise on the de-
signing of farm buildings. Lond. 1905.

SYSTEMATIC AGRICULTURE.

·631 SOILS.

- 631 **Burkett, C. W.** Soils—their properties, improvement,
etc. New York 1907.
·631 **Fletcher, S. W.** Soils, how to handle and improve
them. Lond. 1907.
·631 **Fream, W.** Soils and their properties. Lond. 1890.
·631 **Hall, A. D.** The Soil. Lond. 1903.
·631 **Hilgard, E. W.** Soils. New York. 1906.
·631 **Hoskyns, C. W.** Talpa ; or, The chronicles of a clay
farm. Lond. 1903.
·631 **King, F. H.** The Soil. New York 1902.
·631 **Lyon, T. L.** Soils and fertilizers. New York 1918.

·63 AGRICULTURE

- 63I **Lyon, T. L., and Fippin, E. O.** Principles of soil management. New York 1909.
- 63I **Mosier, J. G., and Gustafson, A. F.** Soil physics and management. Philad. [1917].
- 63I **Roberts, I. P.** The Fertility of the land. New York 1911.
- 63I **Russell, E. J.** Lessons on soil. Camb. 1912.
- 63I **Scott, J., and Morton, J. C.** The Soil. Lond.
- 63I **Snyder, H.** Soils and fertilizers. New York 1912.
- 63I **Wahnschaffe, F.** Guide to the scientific examination of soils. Lond. 1892.
- 63I **Warington, R.** Lectures on some of the physical properties of soil. Oxf. 1900.
- 63I **Whiting, A. L.** Soil biology: laboratory manual. New York 1917.
- 63I(23) **France.** Restauration et conservation des terrains en montagne. 3 vols. Paris 1911.
- 63I **Burgess, P. S.** Soil bacteriology: laboratory manual. Easton, Pa. 1914.
: 5768
- 63I : 633 **Mosier, J. G.** Soils and crops. Chicago [1919].
- 63I122 **Livingston, B. E., and others.** Water-relation between plant and soil, etc. Wash. 1915.
- 63I3 **King, F. H.** Irrigation and drainage. New York 1903.
- 63I3 **Wilcox, L. M.** Irrigation farming. New York 1912.
- 63I4I **Klippart, J. H.** Land drainage. Cincinnati 1894.

·6316 FERTILIZERS.

- 6316 **Dyer, B., and Shrivell, F. W. E.** Manuring of market garden crops. Lond. [1910].
- 6316 **Hall, A. D.** Feeding of crops and stock. Lond. 1911.
- 6316 ——— Fertilizers and manures. Lond. 1909.
- 6316 **Heiden, E.** Lehrbuch der Düngerlehre. 2 vols. Hannover 1879-87.
- 6316 **Lambert, T.** Bone products and manures. Lond. 1913.
- 6316 **Lloyd, S. L.** Mining and manufacture of fertilizing materials. New York 1918.

·63 AGRICULTURE

- 6316 **Müntz, A., and Girard, A. C.** Les Engrais. 3 vols. Paris 1895-96.
- 6316 **Russell, E. J.** Manuring for higher crop production. Camb. 1916.
- 6316 **Schneidewind, W.** Die Stickstoffquellen und die Stickstoffdüngung. Berl. 1908.
- 6316 **Van Slyke, L. L.** Fertilizers and crops. New York 1912.
- 6316 **Voorhees, E. B.** Fertilizers. New York 1902.
- 6316 **Wolff, E.** Anleitung zur chemischen Untersuchung landwirtschaftlich wichtiger Stoffe. Berl. 1899.
- 6316 ——— Düngerlehre. Berl. 1897.
- 63161 **Ville, G.** Recherches expérimentales sur la végétation. Paris 1893.
- 63161 **Glasgow and West of Scotland technical college.**
(414) Agricultural department. Reports on manuring, etc. 1893, 1894, 1895. Glasg. 1894-96.
- 63167 **Brenchley, W. E.** Inorganic plant poisons and stimulants. Camb. 1914.
- 63167 **Ville, G.** Artificial manures. Lond. 1909.
- 6316724 **Schucht, L.** Die Fabrikation des Superphosphats. Braunsch. 1903.

·6317 FARM ENGINEERING.

- 6317 **Davidson, J. B., and Chase, L. W.** Farm machinery and farm motors. New York 1908.
- 6317 **Haines, A. H., and Daniel, A. F. H.** Surveying and building construction for agricultural students. Lond. 1915.
- 6317 **Hirshfeld, C. F., and Ulbricht, T. C.** Gas engines for the farm. New York 1914.
- 6317 **Scott, J.** Complete text-book of farm engineering. Lond. 1885.

·6319 METHODS OF CULTIVATION.

- 6319 **Macdonald, W.** Dry-farming. Lond. [1911].
- 6319 **Sadebeck, R.** Die Kulturgewächse der deutschen Kolonien und ihre Erzeugnisse. Jena 1899.

•63 AGRICULTURE

*6319	Widdsoe, J. A.	Dry-farming.	New York 1912.
*63195	Bailey, L. H.	The Nursery-book.	New York 1912.
*6319621	—	The Pruning-book.	New York 1911.
*6319832	Shaw, T.	Soiling crops and the silo.	New York 1912.

-632 PESTS.

- 632 **Delacroix, G.** Maladies des plantes cultivées dans les
pays chauds. Paris 1911.
- 632 **Faes, H.** Les Maladies des plantes cultivées et leur
traitement. Paris [1909].
- 632 **Petherbridge, F. R.** Fungoid and insect pests of the
farm. Camb. 1916.
- 632 **Rampon, C.** Les Ennemis de l'agriculture. Paris 1898.
- 632 **Smith, W. G.** Diseases of field and garden crops,
chiefly such as are caused by fungi. Lond. 1884.
- 632(94) **McAlpine, D.** Fungus diseases of citrus trees in
Australia. Melbourne 1899.
- 632(94) — Fungus diseases of stone-fruit trees in Australia.
Melbourne 1902.
- 632(94) — The Rusts of Australia. Melbourne 1906.
- 632(94) — The Smuts of Australia. Melbourne [1910]
- 6325 **Brenchley, W. E.** Weeds of farm land. Lond. 1920.
- 6325 **Long, H. C., and Percival, J.** Common weeds of the
farm and garden. Lond. 1910.
- 6325 **Maier-Bode, F.** Die Bekämpfung der Acker-Unkräuter.
Stuttg. 1908.
- 6325 **Pammel, L. H.** Weeds of the farm and garden.
New York 1911.
- 6325 — Weed flora of Iowa. Des Moines 1913.
- (777)
- 6325 **Ewart, A. J., and Tovey, J. R.** Weeds, poison plants,
(945) and naturalized aliens of Victoria. Melbourne 1909.
- 6327 **Ormerod, E. A.** Manual of injurious insects, with
methods of prevention and remedy. Lond. 1890.
- 6327 **Weed, C. M.** Insects and insecticides.
New York 1903.

·63 AGRICULTURE

- 6327 **Ballou, H. A.** Insect pests of the Lesser Antilles.
(729) Bridgetown, Barbados 1912.
- 632942 **Lodeman, E. G.** The Spraying of plants.
New York 1910.
- 632951 **Bourcart, E.** Insecticides, fungicides, and weed killers.
Lond. 1913.

·633 CROPS.

- 633 **Fruwirth, C.** Die Züchtung der landwirtschaftlichen
Kulturpflanzen. 4 vols. Berl. 1904-07.
- 633 **Wollny, E.** Saat und Pflege der landwirtschaftlichen
Kulturpflanzen. Berl. 1885.

·6331 FOOD CROPS.

- 63311 **Buller, A. H. R.** Essays on wheat. New York, 1919.
- 63311 **Crookes, Sir W.** The Wheat problem. Lond. 1917.
- 63311 **Osborne, T. B.** Proteins of wheat kernel. Wash. 1907.
- 63314 **Denaiffe and Sirodot.** L'Avoine. Paris [1901].
- 633151 **Davy, J. Burt-**. Maize—its history, cultivation,
handling, and uses. Lond. 1914.

·6333 FODDER CROPS.

- 6333 **Clark, G. H., and Malte, M. O.** Fodder and pasture
plants. Ottawa 1913.
- 6333 **Dietrich, T., and König, J.** Zusammensetzung und
Verdaulichkeit der Futtermittel. 2 vols. Berl. 1891.
- 6333 **[Kellner, O.]** Die Futtermittel des Handels. Berl. 1906.
- 6333 **Shaw, T.** Forage crops. New York 1910.
- f. 6333 **Stebler, F. G., and Schröter, C.** Best forage plants
fully described and figured. Lond. 1889.
- 6333 **Voorhees, E. B.** Forage crops. New York 1911.
- 6333 **Wolff, E. von.** Farm foods. Lond. 1895.
- 6333 — Rationelle Fütterung der landwirtschaftlichen Nutz-
tiere. Berl. 1899.
- 6333 **Faber, H.** Forage crops in Denmark. Lond. 1920.
(489)

63 AGRICULTURE

- 63331 **Sutton, M. J.** Permanent and temporary pastures.
Lond. 1891.
- 6333141 **Hitchcock, A. S.** Text-book of grasses.
New York 1914.
- 6333141 **Ward, H. M.** Grasses. Camb. 1901.
- 6333141 **Gordon, W. J.** Manual of British grasses.
(42) Lond. [1907].
- 6333141 **Vasey, G.** Illustrations of North American grasses.
(7) 2 vols. Wash. 1891-93.

6334 INDUSTRIAL CROPS.

- 63340821 **IMPERIAL INSTITUTE HANDBOOKS.** Lond. 1911.→
IMP.
1. **Dudgeon, G. C.** Agricultural and forest products of British West Africa. 1911.
 2. **Johnson, W. H.** Cocoa, its cultivation and preparation. 1912.
 3. **Goulding, E.** Cotton and other vegetable fibres. 1917.
 4. **Brown, H.** Rubber—its sources, cultivation, and preparation. 1918.
- 6334 **Morris, D.** Economic resources of West Indies.
(729) Lond. 1898.
- 6334113 **Balls, W. L.** The Cotton plant in Egypt. Lond. 1912.
- 6334113 **Bowman, F. H.** Structure of the cotton fibre.
Lond. 1908.
- 6334113 **International federation of master cotton spinners' and manufacturers' association.** Official report of visit to Egypt, etc. Also Cotton growing in Egypt. [Manch. 1913].
- 633433 **Claassen, H.** Beet-sugar manufacture.
New York 1906.
- 633433 **Scott, J. W. Robertson-.** Sugar beet. Lond. 1911.
- 633473 **Lloyd, F. E.** Guayule, a rubber-plant of the Chihuahuan desert. Wash. 1911.
- 633473 **Lock, R. H.** Rubber and rubber planting. Camb. 1913.
- 633473 **Seeligmann, T., and others.** Indiarubber and gutta percha. Lond. 1910.

63 AGRICULTURE

- 633473 **Weber, C. O.** Chemistry of india rubber. Lond. 1909.
 633473 **Wright, H.** Rubber cultivation in the British Empire.
 Lond. 1907.
 633473 **Petch, T.** Physiology and diseases of *Hevea brasiliensis*.
 : 5812 Lond. 1911.

634 FORESTRY.

- 634 **Beauverie, J.** Le Bois. 2 vols. Paris 1905.
 634 **Boulger, G. S.** Wood, a manual of the natural history and industrial applications of the timbers of commerce.
 Lond. 1902.
 634 **Boyd, J.** Afforestation. Lond. 1918.
 634 **Charpentier, P.** Timber, a study of wood in all its aspects.
 Lond. 1902.
 634 **Cheney, E. G., and Wentling, J. P.** The Farm woodlot.
 New York 1914.
 634 **Curtis, C. E.** Practical forestry. Lond. 1908.
 634 **Evelyn, J.** Sylva; or, A discourse of forest trees.
 2 vols. Lond. [1908].
 634 **Graves, H. S.** Forest mensuration. New York 1914.
 634 **Grigor, J.** Arboriculture. Edin. 1868.
 634 **Maw, P. T.** The Practice of forestry. Lond. 1912.
 634 **Mayr, H.** Waldbau auf naturgesetzlicher Grundlage.
 Berl. 1909.
 634 **Moon, F. F., and Brown, N. C.** Elements of forestry.
 New York 1915.
 634 **Nanquette, H.** Cours de technologie forestière.
 Paris 1887.
 634 **Nisbet, J.** The Forester. 2 vols. Edin. 1905.
 634 ——— Studies in forestry. Oxf. 1894.
 634 **Pinchot, G.** Primer of forestry. 2 pts.
 Wash. 1899-1915.
 634 **Rattray, J., and Mill, H. R.** Forestry and forest products. Ed. J. R. and H. R. M. Edin. 1885.
 634 **Schlich, W.** Manual of forestry. 5 vols.
 Lond. 1889-96.

- 634 **Toumey, J. W.** Seeding and planting. New York 1916.
- 63405 **Forstwissenschaftliches Centralblatt.** Vol. 30→
F.C. Berl. 1908→
- 63406 **Forestry Commission.** British empire forestry conference, London, 1920. Proceedings, etc. Lond. 1921.
F.C.
- 63406 **Scottish arboricultural society, Royal.** Trans. Vol. 6→
S.A. Edin. 1872→
- 016:634 **Rehder, A.** The Bradley bibliography: a guide to the literature of the woody plants of the world. 5 vols. Camb. [Mass.] 1911-18.
B.B.

·634(·) REGIONAL FORESTRY.

- 634(213) **Brown, A. F.** Sylviculture in the tropics. Lond. 1912.
- 634 **Dickie, G.** Forest and other trees of Aberdeenshire.
(4125)
- 634(42) **Bean, W. J.** Trees and shrubs hardy in the British Isles. 2 vols. Lond. 1914.
- 634(42) **Brown, J. C.** Forests of England and the management of them in bygone times. Edin. 1883.
- f.·634(42) **Elwes, H. J., and Henry, A.** Trees of Great Britain and Ireland. 7 vols. Edin. 1906-13.
- 634(42) **Forbes, A. C.** British forestry. Lond. 1910.
- 634(42) — English estate forestry. Lond. 1906.
- 634(42) **Stebbing, E. P.** British forestry. Lond. 1916.
- 634(42) **Webster, A. D.** National afforestation. Lond. [1919].
- 634(43) **Brown, J. C.** Forestry in Germany. Edin. 1887.
- 634(44) — French forest ordinance of 1669. Edin. 1883.
- 634(44) — Pine plantations on the sand wastes of France. Edin. 1878.
- 634(44) — Reboisement in France. Lond. 1876.
- f.·634(44) **Daubrée, L.** Statistique et atlas des forêts de France. 2 vols. Paris, 1912.
- 634(46) **Brown, J. C.** School of forest engineers in Spain. Edin. 1886.

·63 AGRICULTURE

- 634(47) **Brown, J. C.** Forests and forestry of northern Russia.
Edin. 1884.
- 634(47I) ——— Finland, its forests and forest management.
Edin. 1883.
- 634(475) ——— Forests and forestry in Poland, Lithuania, etc.
Edin. 1885.
- 634(476) ——— Forestry in the mining districts of the Ural Mountains in Eastern Russia.
Edin. 1884.
- 634(54) **Brandis, Sir D.** Indian trees. Lond. 1906.
- 634(54) **Troup, R. S.** Indian forest utilization. Calcutta 1907.
- 634(54) **Hole, R. S.** Manual of botany for Indian forest students. Calcutta 1909.
: 58
- 634(54) **Stebbing, E. P.** Manual of elementary forest zoology for India. Calcutta 1908.
: 5916
- 634(54) ——— Indian forest insects of economic importance. Coleoptera. Lond. 1914.
: 59576
- 634(678) **Sim, T. R.** Forest flora and forest resources of Portuguese East Africa. Abd. 1909.
- f.·634 ——— Forests and forest flora of the Colony of the Cape
(687) of Good Hope. Abd. 1907.
- 634(7) **Bruncken, E.** North American forests and forestry.
New York 1900.
- 634(7I) **Canada—Commission of conservation.** Forest production in Canada, 1912. Toronto 1913.
- 634(7II) **Whitford, H. N., and Craig, R. D.** Forests of British Columbia. Ottawa 1918.
- 634(73) **Mathews, F. S.** Field book of American trees and shrubs. New York [1915].
- 634(73) **United States—Department of commerce—Bureau of corporations.** The Lumber industry. Pt. 1→ Wash. 1913→
- f.·634(94) **Baker, R. T.** The Hardwoods of Australia and their economics. Sydney 1919.
- 634 **Bruncken, E.** Forests and moisture. Edin. 1877.
: 55157

·63 AGRICULTURE

- 634 **Webster, A. D.** Tree wounds and diseases. Lond. 1916.
: 5812
- 634 **Pennsylvania Chestnut tree blight commission.**
: 58123 Publications, 1911-1913. Harrisburg 1915.
- 634 **Hiley, W. E.** The Fungal diseases of the common
: 58124 larch. Oxf. 1919.
- 634 **Hickel, R.** Graines et plantules. 2 pts. Versailles 1911-14.
: 5813
- 634 **Rafn, J.** The Testing of forest seeds during 25 years.
: 5813 1887-1912. [Köbenhavn 1915.]
- 634 **Rogers, C. Coltman-.** Conifers and their character-
: 5852 istics. Lond. 1920.
- 634 **Gillanders, A. T.** Forest entomology. Edin. 1908.
: 5957

·6341 FRUIT TREES.

- 6341 **Bailey, L. H.** Principles of fruit-growing. New York 1912.
- 6341(73) — Sketch of the evolution of our native fruits. New York 1898.
- 634112 **Beach, S. A.** Apples of New York. 2 vols. Albany 1905.
(747)
- f.·6341161 **Hedrick, U. P.** Peaches of New York. Albany 1917.
(747)
- f.·6341171 — Plums of New York. Albany 1911.
(747)
- f.·6341172 — Cherries of New York. Albany 1915.
(747)
- 63414 **Card, F. W.** Bush-fruits. New York 1909.
- f.·6346 **Hedrick, U. P.** Grapes of New York. Albany 1908.
(747)

·635 HORTICULTURE.

- 635 **Bailey, L. H.** Garden-making. New York 1911.
- 635 **Reid, J.** The Scots gard'ner. Ed. A. H. Hyatt. Lond. 1907.

·63 AGRICULTURE

- Ref. ·63503 **Bailey, L. H.** The Standard cyclopedia of horticulture.
6 vols. New York 1914-17.
- 63505 G.C. **Gardener's chronicle.** 1841-73; ser. II., 26 vols.,
1874-86; ser. III., 1887→ Lond. 1841→
- 63506 **Horticultural society, Royal.**
H.J. Horticultural society of London. Journal. Vols. 1-9.
Lond. 1846-55.
—— Trans. 7 vols; Ser. II. 3 vols. Lond. 1835-48.
Horticultural society, Royal. Journal. Vol. 6→
Lond. 1880→
- 6351 **Bailey, L. H.** The Forcing-book. New York 1911.
- 6351 ——— Principles of vegetable-gardening. New York 1912.
- 6351 **Bardswell, F. A.** The Herb-garden. Lond. 1911.
- 6351 **Weathers, J.** Commercial gardening. 4 vols.
Lond. 1913.
- 6351 **Wright, J., and H. J.** Vegetable grower's guide. 4 divs.
Lond.

·636 DOMESTIC ANIMALS.

- B.M. ·636 **British Museum.** Guide to the domesticated animals—
other than horses. [By R. Lydekker.] Lond. 1912.
- 636 **Brown, G. T.** Animal life. Lond.
- 636 **Carrington, W. T., and others.** Live-stock. Lond.
- 636 **Plumb, C. S.** Types and breeds of farm animals.
Boston [Mass. 1906].
- 636 **Wilcox, E. V.** Farm animals. Lond. 1907.
- 636 **Wilson, J.** Breeding and feeding of farm stock.
Lond. [1921].
- 63602 **Cornevin, C.** Traité de zootechnie générale.
Paris 1891.
- 63602 **Davenport, E.** Principles of breeding.
Boston [Mass. 1907].
- 63602 **Sanson, A.** Traité de zootechnie. 5 vols.
Paris 1893-1901.
- 63602 **Wilson, J.** Principles of stock-breeding. Lond. 1912.

·63 AGRICULTURE

- 636043 **Henry, W. A., and Morrison, F. B.** Feeds and feeding.
Madison, Wis. 1917.
- 636043 **Jordan, W. H.** Feeding of animals. New York 1901.
- 636043 **Kellner, O.** Scientific feeding of animals. Lond. 1909.
- 636043 **Shaw, T.** Feeding farm animals. New York 1907.
- 6360821 **Monographien landwirtschaftlichen Nutztiere.**
Vol. 1→ Leip. 1904→
- 636084 **Nathusius, S. von.** Atlas der Rassen und Formen
unserer Haustiere. 4 ser. Stuttg. 1904.
- 636(42) **Wallace, R.** Farm live stock of Great Britain.
Lond. 1893.
- 636 **Shaw, T.** Animal breeding. New York 1903.
: 59156
- 636:612 **Wood, T. B., and Marshall, F. H. A.** Physiology of
farm animals. Pt. 1→ Camb. 1920→

·6361 HORSES.

- 6361 **Biddell, H., and others.** Heavy horses—breeds and
management. Lond. 1894.
- 6361 **Blew, W. C. A., and others.** Light horses—breeds and
management. Lond. 1894.
- 6361 **Boucaut, Sir J. P.** The Arab the horse of the future.
Lond. 1905.
- B.M.·6361 **British Museum.** Guide to the specimens of the horse
family. [By R. Lydekker.] Lond. 1907.
- 6361 **Douglas, C., and A.** The Shetland pony. Edin. 1913.
- f.·6361 **Fothergill, G. A.** A Gift to the State: the National
stud. 1916.
- 6361 **Galvayne, S.** The XXth century book on the horse.
Lond. 1907.
- 6361 **Gilbey, Sir W.** The Great horse, or the war horse, from
the Roman invasion till its development into the
shire horse. Lond. 1899.
- 6361 **Goubaux, A., and Barrier, G.** Exterior of the horse.
Philad. 1892.
- 6361 **M'Fadyean, Sir J.** Anatomy of the horse. Edin. 1902.

·63 AGRICULTURE

·6361 **Ridgeway, W.** Origin and influence of the thoroughbred horse. Camb. 1905.

·636105 **Clydesdale stud-book.** Vol. 1→ Glasg. 1884→
C.S.

·6362 CATTLE.

·6362 **Bruce, R.** Fifty years among shorthorns. Lond. 1907.

·6362 **Cameron, J.** Shorthorns in central and southern Scotland. Edin. 1921.

·6362 **McCombie, W.** Cattle and cattle-breeders. Edin. 1886.

·6362 **Macdonald, J., and Sinclair, J.** History of Hereford cattle. Lond. 1909.

·6362 — History of polled Aberdeen or Angus cattle. Edin. 1882.

·6362 **Mackenzie, K. J. J.** Cattle and the future of beef-production in England. Camb. 1919.

·6362 **Pulling, A.** Aberdeen-Angus cattle. Lond. 1908.

·6362 **Sinclair, J.** History of shorthorn cattle. Ed. J. S. Lond. 1907.

·6362 **Storer, J.** Wild white cattle of Great Britain. Lond.

·6362 **Wallace, F. L.** Private catalogue of pure-bred shorthorn cattle. Abd. 1920.

·6362 **Wilson, J.** Evolution of British cattle. Lond. 1909.

·636205 **Highland herd book.** [Vol. 1]→ Inverness 1885→
H.H.

·636205 **Polled herd book.** Vol. 1→ Banff 1884→
P.H.

·6363 SHEEP.

·6363 **Bonwick, J.** Romance of the wool trade. Lond. 1894.

·6363 **Ormerod, F.** Wool. Lond. 1918.

·6363 **Wrightson, J.** Sheep. Lond. 1895.

·6365 POULTRY.

·6365 **Watson, G. C.** Farm poultry. New York 1912.

·63 AGRICULTURE

·637 DAIRY.

- 637 **Armstrong college—Newcastle-upon-Tyne.** Reports on dairy investigations. Lond. 1909.
- 637 **Duclaux, E.** Principes de laiterie. Paris
- 637 **Fleischmann, W.** Book of the dairy. Lond. 1896.
- 637 **Grimmer, W.** Chemie und Physiologie der Milch. Berl. 1910.
- 637 **Grotenfelt, G.** Principles of modern dairy practice from a bacteriological point of view. New York 1894.
- 637 **Long, J., and Morton, J. C.** The Dairy. Lond. 1895.
- 637 **Richmond, H. D.** Dairy chemistry. Lond. 1914.
- 637 **Snyder, H.** Dairy chemistry. New York 1911.
- 637 **Wing, H. H.** Milk and its products. New York 1903.
- 637 **Freudenreich, E. von.** Dairy bacteriology. Lond. 1895.
: 5768
- 637 **Russell, H. L.** Outlines of dairy bacteriology. Madison, Wis. 1902.
: 5768
- 637 **Sadler, W.** Bacteria as friends and foes of the dairy farmer. Lond. [1912].
: 5768
- 637¹ **Thomson, G. S.** Milk and cream testing, and grading dairy products. Lond. 1911.
- 637¹ **Tisdale, C. W. Walker-.** Milk testing. Northallerton 1909.
- 637² **Tisdale, C. W. Walker-, and Robinson, T. R.** Butter-making on the farm and at the creamery. Lond. 1907.
- 637² **Ryn, J. J. L.** On the composition of Dutch butter. Lond. 1902.
(492)
- 637³ **Van Slyke, L. L., and Publow, C. A.** Science and practice of cheese-making. New York 1909.

·638 USEFUL INSECTS.

- 638¹ **Cowan, T. W.** British bee-keeper's guide book. Lond. [1911].

·639 FISH AND GAME.

- 639¹ **Mackie, P. J., and Walker, A. S.** The Keeper's book : a guide to the duties of a gamekeeper. Edin. 1909.

·63 AGRICULTURE

- 6392 **Zuiderzee-Vereeniging.** Verzameling van rapporten.
(492) Leiden 1905.
- 6392(73) **Goode, G. B.** Fisheries and fishing industries of the
United States. Section I., Text and plates.
Wash. 1884.
- 639222 **Samuel, A. M.** The Herring—its effect on the history
of Britain. Lond. 1918.
- 6394 **Herdman, W. A.** Report to the government on the
(267) pearl oyster fisheries of the Gulf of Manaar. 5 vols.
Lond. 1903-06.
- 6394(71) **Stafford, J.** The Canadian oyster. Ottawa 1913.

·66 CHEMICAL TECHNOLOGY.

- 6602 **Allen, A. H.** Commercial organic analysis. 9 vols.
Lond. 1910-17.
- 6602 **Askenasy, P.** Einführung in die technische Elektro-
chemie. Hrsg. P. A. Vol. 1→ Braunsch. 1910→
- 6602 **Blount, B., and Bloxam, A. G.** Chemistry for en-
gineers and manufacturers. 2 vols. Lond. 1900.
- 6602 **Dammer, O.** Chemische Technologie der Neuzeit.
Hrsg. O. D. 3 vols. Stuttg. 1910-11.
- 6602 — Handbuch der chemischen Technologie. 5 vols.
Stuttg. 1895-98.
- Ref.*·6602 **Groves, C. E., and Thorp, W.** Chemical technology.
3 vols. Lond. 1889-1900.
- 6602 **Martin, G.** Industrial and manufacturing chemistry.
2 pts. Lond. 1917-18.
- 6602 **Ost, H.** Lehrbuch der technischen Chemie.
Hannover 1898.
- 6602 **Thorp, F. H.** Outlines of industrial chemistry.
New York 1899.
- 6603 **Blücher, H.** Modern industrial chemistry. Lond. 1911.
- 6603 **Brannt, W. T., and Wahl, W. H.** Techno-chemical
receipt book. Ed. W. T. B. and W. H. W.
Philad. 1902.
- 6603 **Hopkins, A. A.** Scientific American cyclopedia of
receipts, notes, and queries. New York 1903.
- 6603 **Spon, E., and others.** Workshop receipts. 5 series.
Lond. 1895-97.
- Ref.*·6603 **Thorpe, Sir T. E.** Dictionary of applied chemistry. 3
vols. Lond. 1890-93.

- Ref.·6603 **Thorpe, Sir T. E.** Dictionary of applied chemistry. 5 vols. Lond. 1912-13.
- 6604 **Kremann, R.** Application of physico-chemical theory to technical processes. Lond. 1913.
- 6604 **Lunge, G.** Technical chemists' handbook. Lond. 1910.
- 6604 **Slosson, E. E.** Creative chemistry. Lond. 1921.
- 6605 C.J. **Chemical trade journal.** Vol. 28→ Manch. 1901→
- 6605 F.T. **Fortschritte der Teerfarbenfabrikation.** 1→ Berl. 1888→
- 6605 J.I. **Journal of industrial and engineering chemistry.** Vol. 6→ Easton, Pa. 1914→
- 6606 M.S. **Manchester municipal college of technology.**
Municipal school of technology, Manchester.
Journal. Vols. 1-8. Manch. 1909-16.
Manchester municipal college of technology. Technology. Vol. 9→ Manch. 1918→
- 6606 J.S. **Society of chemical industry.** Journal. Vol. 1, 3→ Manch., Lond. 1882→
- 6607 **Cuniasse, L., and Zwillling, R.** Modes opératoires des essais du commerce et de l'industrie. Paris 1900.
- 660821 MONOGRAPHS ON INDUSTRIAL CHEMISTRY. Lond. 1918→
MON.
1. **Bone, W. A.** Coal and its scientific uses. 1918.
2. **Hale, A. J.** Applications of electrolysis in chemical industry. 1918.
3. **Mitchell, C. A.** Edible oils and fats. 1918.
4. **Morgan, G. T.** Organic compounds of arsenic and antimony. 1918.
5. **Smith, E. A.** The Zinc industry. 1918.
6. **Watson, E. R.** Colour in relation to chemical constitution. 1918.
7. **Henderson, G. G.** Catalysis in industrial chemistry. 1919.
8. **Perkin A. G., and Everest, A. E.** Natural organic colouring matters. 1918.
9. **Clayton, W.** Margarine. 1920.
10. **Heriot, T. H. P.** The Manufacture of sugar from the cane and beet. 1920.
11. **Whitby, G. S.** Plantation rubber and the testing of rubber. 1920.

·66 CHEMICAL TECHNOLOGY

- 66(43) **Witt, O. N.** Die Chemische Industrie des deutschen Reiches. Berl. 1902.
- 66 : 543 **Lunge, G.** Technical methods of chemical analysis. Ed. G. L. 3 vols. Lond. 1908-14.
- 66 : 543 ——— Techno-chemical analysis. New York 1905.

·661 CHEMICALS.

- 66125 **Lunge, G.** Manufacture of sulphuric acid and alkali. Vol. 1, 3 pts. Lond. 1913.
- 6617 **Sadtler, S. P.** Handbook of industrial organic chemistry. Philad. 1900.
- 661722 **Herrick, R. F.** Denatured or industrial alcohol. New York 1907.
- 661722 **Wright, F. B.** Practical handbook on distillation of alcohol from farm products. New York 1907.

·662 PYROTECHNICS, ETC.

- 6622 **Marshall, A.** Explosives. 2 vols. Lond. 1917.
- 6622 **Ramsey, A. R. J., and Weston, H. C.** A Manual on explosives. Lond. 1916.
- 6626 **Brame, J. S. S.** Fuel—solid, liquid, and gaseous. Lond. 1914.
- 662641 **Björling, P. R., and Gissing, F. T.** Peat, its use and manufacture. Lond. 1907.
- 662641 **Gissing, F. T.** Peat industry reference book. Lond. 1920.

·663 FERMENTS, BEVERAGES, ETC.

- 6631 **Matthews, C. G.** Manual of alcoholic fermentation. Lond. [1901].
- 6631 **Lafar, F.** Technical mycology. Vol. 1→
: 5892 Lond. 1898→
- 6631 **Green, J. R.** Soluble ferments and fermentation.
: 5899 Camb. 1899.
- 6631 **Hansen, E. C.** Practical studies in fermentation.
: 5899 Lond. 1896.

·66 CHEMICAL TECHNOLOGY

- 6631 **Jørgensen, A.** Die Mikroorganismen der Gärungs-
: 61601 industrie. Berl. 1898.
- 66311 **Effront, J.** Enzymes and their applications. Vol. 1→
New York 1902→
- 6634 **Moritz, E. R., and Morris, G. H.** Text-book of the
science of brewing. Lond. 1891.
- 6634 **Sykes, W. J.** Principles and practice of brewing.
Lond. 1902.
- 6634 **Wright, H. E.** Handy book for brewers. Lond. 1907.
- 6635 **Nettleton, J. A.** Manufacture of spirit. Lond. 1893.
- 66391 **Cadbury, R.** Cocoa—all about it. Lond. 1896.

·664 FOODS.

- 664 **Simmons, W. H., and Mitchell, C. A.** Edible fats and
oils. Lond. 1911.
- 6646 **Jago, W.** Text-book of the science and art of bread-
making. Lond. 1895.

·665 OILS, FATS, ETC.

- 665 **Greenwood, H. C.** Industrial gases. Lond. 1920.
- 665 **Hurst, G. H.** Lubricating oils, fats, and greases.
Lond. 1896.
- 665 **Laucks, I. F.** Commercial oils. New York 1919.
- 665 **Lewkowitsch, J.** Chemical technology and analysis of
oils, fats, and waxes. 3 vols. Lond. 1909.
- 665 **White, A. H.** Technical gas and fuel analysis.
New York 1913.
- 665 **Ellis, C.** The Hydrogenation of oils. Lond. 1920.
- : 54112
- 66531 **Andés, L. E.** Vegetable fats and oils. Lond. 1917.
- 66531 **Chalmers, T. W.** Production and treatment of veget-
able oils. Lond. 1918.
- 6657 **Abady, J.** Gas analyst's manual. (Incorporating
F. W. Hartley's "Gas analyst's manual" and "Gas
measurement".) Lond. 1902.

·66 CHEMICAL TECHNOLOGY

- 6657 **Butterfield, W. J. A.** Chemistry of gas manufacture.
Lond. 1896.

·666 CERAMICS, GLASS, ETC.

- 666 **Bronn, J.** Der Elektrische Ofen im Dienste der keramischen Gewerbe, etc. Halle a. S. 1910.
·6661 **Rosenhain, W.** Glass manufacture. Lond. 1919.
·666232 **Boyer, J.** La Synthèse des pierres précieuses.
Paris 1909.

·667 DYEING, ETC.

- 6672 **Benedikt, R.** Chemistry of the coal-tar colours.
Lond. 1886.
·6672 **Cain, J. C., and Thorpe, J. F.** Synthetic dyestuffs and the intermediate products from which they are derived.
Lond. 1905.
·6672 **Crookes, W.** Dyeing and tissue-printing. Lond. 1882.
·6672 **Hummel, J. J.** Dyeing of textile fabrics. Lond. 1896.
·6672 **Nietzki, R.** Chemistry of the organic dye-stuffs.
Lond. 1892.
·6672 **Reissert, A.** Geschichte und Systematik der Indigo-Synthesen. Berl. 1898.
·6672 **Schultz, G., and Julius, P.** Systematic survey of the organic colouring matters. Revised by A. G. Green.
Lond. 1904.
·6672 **Wood, J. K.** Chemistry of dyeing. Lond. 1913.
·6676 **Church, A. H.** Chemistry of paints and painting.
Lond. 1901.
·6676 **Smith, J. C.** Manufacture of paint. Lond. 1915.

·668 MISCELLANEOUS INDUSTRIES.

- 6681 **Moride, E.** Traité pratique de savonnerie. Paris 1888.
·66831 **Lambert T.** Glue, gelatine, and their allied products.
Lond. 1905.
·66831 **Rideal, S.** Glue and glue testing. Lond. 1914.
·6687 **Lunge, G.** Coal-tar and ammonia. 2 vols.
Lond. 1909.

·66 CHEMICAL TECHNOLOGY

- 6687 **Lunge, G.** Treatise on the distillation of coal-tar and ammoniacal liquor. Lond. 1882.
·66873 **Findlay, A.** The Treasures of coal tar. Lond. 1917.

·669 METALLURGY.

- 66902 **Austen, Sir W. C. R.** Introduction to the study of metallurgy. Lond. 1902.
·66902 **Hiorns, A. H.** Text-book of elementary metallurgy. Lond. 1888.
·66902 **Schnabel, C.** Handbook of metallurgy. 2 vols. Lond. 1905-07.
·66902 **Sexton, A. H.** Elementary text-book of metallurgy. Lond. 1907.
·66904 **Buchanan, J. F.** Practical alloying. Cleveland, O. [1910].
·6691 **Friend, J. N.** Corrosion of iron and steel. Lond. 1911.
·6691 **Steel research committee.** Report. Sheffield 1920.
·66914 **Carnegie, D., and Gladwyn, S. C.** Liquid steel. Lond. 1918.
·6698 **Borchers, W.** Electric smelting and refining. Lond. 1904.

·6699 ASSAYING.

- 6699 **Aaron, C. H.** Assaying. 2 vols. San Francisco 1900.
·6699 **Hiorns, A. H.** Practical metallurgy and assaying. Lond. 1888.
·6699 **Lord, N. W., and Demorest, D. J.** Metallurgical analysis. New York 1913.

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- Brady, G. S.**
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- British Assoc. Reports** ·506 B.A.
— birds ·5905 B.B.
— ecological soc.
Journ. of ecology ·581506 B.E.
- British Museum.**
"Alert" Zool. collections
B.M. ·5919(265)
- Anderson's Chiroptera B.M. ·5994
Andrews' Elephants B.M. ·59961
Andrews' Marine reptiles B.M. ·5981(26)
Arber's Plants of glossopteris flora B.M. ·561(115 : 54)
Ashworth's Chaetopoda B.M. ·59514
- Austen's African blood-sucking flies B.M. ·59165(6)
— Brit. blood-sucking flies B.M. ·59165(42)
— Handbk. of tsetse-flies B.M. ·595772
— Monograph of tsetse-flies B.M. ·595772
- Bates' Crustacea B.M. ·595371
Bather's Blastoidea B.M. ·56391
— Foss. invert. animals B.M. ·562
- Bell's Brit. echinoderms B.M. ·5939(42)
- Books illustr. plant classification B.M. ·58091
- Boulenger's Batrachia gradientia B.M. ·5979
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- Brook and Bernard's Madreporarian corals B.M. ·59366
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- Crick's Fossil Cephalopoda B.M. ·5645
- Crombie and Smith's Monograph of lichens B.M. ·5891(42)
- Darwin B.M. ·57092
- Distant's Homoptera B.M. ·595753
- Economic series B.M. ·591608 ECO 1²→
- Etheridge and Carpenter's Blastoidea B.M. ·56391
- Fawcett and Rendle's Flora of Jamaica B.M. ·5819(7292)
- Fletcher's Meteorites B.M. ·5526

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- Fletcher's Rocks B.M. '552
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 Hiern's African plants B.M. '5819(6)
 Hinde's Fossil sponges B.M. '5634
 Jones's Fossil Foraminifera B.M. '56312
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 Kirby's Orthoptera B.M. '59572
 Linnaeus B.M. '5092
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 Lister's Mycetozoa B.M. '58939
 Lydekker's Domesticated animals B.M. '636
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 Miller's Mammals of W. Europe B.M. '599(4)
 Morley's Brit. Hymenoptera B.M. '595792(42)
 — Incheumonidae B.M. '59579
 Newton's Brit. olig. and eoc. Mollusca B.M. '564(1181 : 42)
 Oates and Reid's Birds' eggs B.M. '5982
 — Corrections B.M. '5982
 Ogilvie-Grant's Guide to birds B.M. '5982
 Rendle's Plants in S. Nigeria B.M. '5819(669)
 Rendle and Britten's Seed-plants B.M. '587(42)
 Seward's Mesozoic plants B.M. '561(116)
 Sharpe's Birds B.M. '5982
 A. L. Smith's Brit. lichens B.M. '5891(42)
 W. Smith's Brit. Diatomaceae B.M. '589311(42)
 W. G. Smith's Brit. fungi B.M. '5892(42)
 — Drawings of mushroom rooms B.M. '589214
 "Southern Cross" collections B.M. '5919(99)
 Stopes's Mesozoic plants B.M. '561(116)
 Theobald's Culicidae B.M. '59577
 — Economic zool. B.M. '5916
 Thomas's Marsupialia B.M. '5992
 Thorell's Spiders of Burma B.M. '5954(592)
 Walker's Heteropt. Hemiptera B.M. '595754
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 Wernham's Sabicea B.M. '583291
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British mycological soc.
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 — rainfall '5515705 B.R.
 — year-book of agric. '63059 B.Y.
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 Australian plants B.M. '582(94)
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- Bureau des longitudes.**
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- Bureau of standards.**
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— University Memoirs
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- — — Coll. of Agric.
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 Catal. of publ. .5506(71) G.M.C.
 Guide books .5506(71) G.G.
 Memoirs .5506(71) G.M.
 Prospect. Handbk. .5506(71) G.P.
 — **Mines.**
 Bulletins .5506(71) M.B.
 Catal. of publ. .5506(71) M.P.C.
 [Publ.] .5506(71) M.P.
 Rept. of mineral prod. .5506(71) M.R.
 — **Dept. of naval service.**
 Currents in St. Lawrence .55147
 — **Geol. survey.**
 Reports .5506(71) G.R.
 — **Meteorol. service.**
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 — **Munition resources comm.**
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- Candolle, A. de**
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 Annals .5221(687) C.A.
 Meridian observ. .5221(687) C.M.O.
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 Year-book .506(73) C.Y.
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 Fourier's anal. .51082 EDI.
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- Hooker's** Icones plan-
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HOOKER—IMPERIAL

- Hooker's**, *journal of botany* ·5805 H.
 — *Lond. journal of botany* ·5805 H.
- Hoops, J.**
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 — *Institute handbooks.* ·63340821 IMP. 1→

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- Ince, E. L.**
Descriptive geometry ·51082 EDI.
- India.**—Board of scient. advice.
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- Justus Liebig's Annalen**
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MICHIGAN—MONOGRAPHS

- Michigan University.** *See* Campbell, E. D.
- Museum of zoology.
Occasional papers ·5906(774) M.U.
- Microscopical soc., R.**
Journal ·57806 R.M.
Monthly microscop. journ. ·57806 R.M.
- Miers, H. A.**
Mineralogy ·54902
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Pflanzenbiologie ·581
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Maths. in China ·5109
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Game-birds f. ·5915 : 5985
Mammals of Gt. Brit. f. ·599(42)
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Math. literature ·5109
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Mammals of W. Europe B.M. ·599(4)
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- Mineralog. soc.**
Mineralog. mag. and journ. ·54906 M.
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Electro-chimie ·54113
- Ministry of agric.**
Agric. statistics ·6306 B.ST.
Diseases of animals acts. Proc. ·6306 B.D.
Grants for agric. educ. ·6306 B.G.
Journ. ·6306 B.J.
- Leaflets ·6306 B.L.
Sale of food and drugs acts. Proc. ·6306 B.S.
Salmon and fresh-water fisheries acts. Proc. ·6306 B.SA.
Sea fisheries acts. Proc. ·6306 B.SE.
Small holdings and allotments act. Proc. ·6306 B.SM.
Tithe acts. Proc. ·6306 B.T.
- Minot, C. S.**
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Organismes ·5768 : 6147
- Missouri botan. garden.**
Reports ·5806(778)
- Mitchell, C. A.**
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Childhood of animals ·5915
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- Monaco.** *See* Musée.
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- Monet de Lamarck, J. B. P. A.**
Life: Packard ·575092
- Monge, G.**
Géom. descript. ·515
- Monographien landwirtsch. Nutztiere.** ·6360821
- Monographs on experi-ment. biol.** ·570821 MON. 1→

MONOGRAPHS—MUKHOPADHYAY

- Monographs on industrial chem.**
 — on inorgan. and phys. chem. ·660821 MON. 1 → ·540821 MON. 1 →
- Montessus de Ballore, F. de**
 Tremblements de terre ·55122
- Montucla, J. E.**
 Hist. des math. ·5109
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 Coal measures Amphibia ·5676(115:7)
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 Forestry ·634
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 Recog. of minerals ·54904
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 Mensuration ·5118
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 Silkworm moths f. ·595787(54)
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 Meteorology ·551502
- Moore, V. A.**
 Diseases of animals ·619
- Morgan, C. L.**
 Animal behaviour ·5915
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 Arsenic and antimony ·660821 MON. 4
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 Basis of heredity ·570821 MON. 3
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- Morgan, T. H., and Bridges, C. B.**
 Inheritance in *Drosophila* ·5751:59577
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 Brit. Hymenoptera B.M. ·595792(42)
 Ichneumonidae B.M. ·59579
 Ichneumonologia Brit. ·59579(42)
- Morley, E. W.**
 Densities of oxygen and hydrogen f. ·5412
- Morphologisches Jahrb.** ·5905 M.J.
- Morris, D.**
 Resources of W. Indies ·6334(729)
- Morris, F. O.**
 Brit. butterflies ·59578(42)
 Brit. moths ·59578(42)
- Morris, J., and Lycett, J.**
 Mollusca from great oolite P.S. ·564(116:427)
- Morse, A. P.**
 N. Amer. Acridiidae ·595727(7)
- Morse, H. N.**
 Osmotic pressure ·5418
- Morton, J. C.**
 Cyclopaedia of agric. ·6303
 Labour ·6302
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 "Challenger" notes ·5(26)
- Moser, A.**
 Organ. Chemie ·547:54113
- Moses, A. J., and Parsons, C. L.**
 Mineralogy ·54902
- Mosier, J. G.**
 Soils and crops ·631:633
- Mosier, J. G. and Gustafson, A. F.**
 Soil physics ·631
- Moss, C. E.**
 Camb. Brit. flora f. ·5819(42)
- Moss exchange club.**
 Brit. mosses ·5882(42)
- Moulton, F. R.**
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- Mourlon, M.**
 Bibliographia geol. ·016:55 B.G.
- Mozans, H. J.**
 Woman in science ·504
- Müller, A.**
 Absolute Raume ·5138
- Mueller, F. von, Baron.**
 Austral. salsolac. plants f. ·583914(94)
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 Australian plants ·5819(94)
 Plants of Victoria ·5819(945)
- Müller, H.**
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- Mukhopadhyay, A.**
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MULLENS—NEUMAYER

- Mullens, W. H., and Swann, H. K.**
Bibliography of Brit. ornithology ·016 : 5982
- Municipal school of Technology, Manchester.**
Journal ·6606 M.S.
- Munro, J., and Jamieson, A.**
Electrical rules ·621308
- Munro, R.**
Palæolithic man ·571(1231)
- Murchison, Sir R. I.**
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- Murdoch, J. B.**
Geol. of Clyde area ·55(414)
- Murray, A.**
Northern flora ·5819(41)
- Murray, D.**
Museums ·5074
- Murray, D. A.**
Diff. equations ·51738
- Murray, G.**
Antarctic manual ·5(99)
- Murray, Sir J., and Pullar, L.**
Scottish lochs ·5(285)
- Muschler, R.**
Flora of Egypt ·5819(62)
- Musée du Congo.**
Annales. Botanique ·506(493) M.
— Ethnographie ·506(493) M.
— Zoologie ·506(493) M.
— océan. de Monaco.
Bulletin ·506(26) M.
- Museums Assoc.**
Museums journ. ·5906 M.A.
Repts. of proc. ·5906 M.A.
- Museums directory** ·5074
- Muter, J.**
Anal. chem. ·543
- Mysore.**
Meteorol. in Mysore ·551506(54) M.M.
- Mysore.—Meteorol. dept.**
Rainfall ·5515706(54) M.R.
- Nachtrieb, H. F.**
Leeches of Minnesota ·59515(776)
- Nadaillac, J. F. A. de.**
Premiers hommes ·571
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1898 eclipse ·52378
- Naegeli, C., and Schwendener, S.**
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Technologie forestière ·634
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Canon of logarithms ·5127
Memoirs ·92 : 51
- Napier, M.**
John Napier 92 : 51
- Nasmyth, J., and Carpenter, J.**
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- Nathusius, S. von.**
Rassen unserer Haustiere ·636084
- National acad. of sciences.**
History ·506(73) N.H.
Memoirs ·506(73) N.M.
Proc. ·506(73) N.P.
- Antarctic Exped.
Album of photos. ·5(269)
Magnetic observ. ·5(269)
Meteorology ·5(269)
Natural hist. ·5(269)
Physical observ. ·5(269)
- Naturæ novitates** ·016 : 5 N.N.
- Natural hist. and archeol. soc.**
Trans. ·5706(4136) S.N.
- hist. soc. of Glasg.
Journ. ·5706(4143) N.H.
Proc. ·5706(4143) N.H.
Proc. and trans. ·5706(4143) N.H.
- hist. soc. of Northumberland,
Durham, etc.
Trans. ·5706(4282)
- Naturalist** ·5705 NA.
- Nature** ·505 N.
- La ·505 NA.
- Naturforschender Verein in Brünn.**
Verhandl. ·5706(4372) N.V.
- Naturwissensch. Verein zu Bremen.**
Abhandl. ·5706(4352) N.V.
Jahresbericht In ·5706(4352) N.V.
- Naumann, C. F.**
Mineralogie ·54902
- Nautical almanac** ·528 N.A.
- Néculcéa, E.**
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Biologie d. Pflanzen ·581
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- Nesbit, B. T.**
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- Netto, E.**
Substitutions ·51286
- Neues Jahrb. f. Mineralog.** ·54905 J.M.
- Neumann, B.**
Electrolytic methods ·5453
- Neumayer, G. von.**
Anleitung ·5082

NEUMAYR—NORTH

- Neumayr, M.**
 Erdgeschichte ·5502
 Stämme d. Thierreichs ·562
- Neveu-Lemaire, M.**
 Parasitologie ·59169
- New phytologist** ·5805 N.P.
- New South Wales.**—Botanic gardens
 Reports f. ·5806(944)
 — Department of Mines.
 Repts. ·5506(944) M.
 — Royal soc.
 Trans. ·506(44)
- New York Agric. exp. station.**
 Bulletins ·6306(747) B.
- New Zealand.**—Dept. of agric.
 Reports ·6306(931) B.
 — Geol. survey.
 Bulletins ·5506(931)
- Newbigging, T.**
 Handbook for gas engineers ·6214
- Newbigin, M. I., and Flett, J. S.**
 J. Geikie ·55092
- Newcomb, S.**
 Position of planes ·52385
 Spher. astron. ·5227
 Stars ·5202
 Sun's radiation ·52372
- Newcomb, S., and Ross, F. E.**
 Inequalities ·5214
- Newman, F. W.**
 Math. tracts ·5104
 Trigonometry ·514
- Newman, H. H.**
 Biology of twins ·5751
- Newstead, R.**
 Coccidæ of Brit. Is. ·59575(42)
- Newth, G. S.**
 Chem. exper. ·5407
 Inorgan. chem. ·54602
 Pract. chem. ·542
- Newton, A., and Gadow, H.**
 Dict. of birds ·598203
- Newton, H.**
 In far New Guinea ·572(95)
- Newton, Sir I.**
 Opera ·52081
 Principia ·521
- Newton, R. B.**
 Brit. olig. and eoc. Mol-
 lusca B.M. ·564(1181 : 42)
- Nichol, J. P.**
 Architect. of heavens ·52304
 Neptune ·52348
 Stellar univ. ·52304
 Syst. of world ·52304
- Nicholls, H. A. A.**
 Tropical agric. ·63(213)
- Nichols, E. L., and Merritt, E.**
 Fluorescence ·53537
 Luminescence ·53537
- Nicholson, G.**
 Dict. of gardening ·5803
- Nicholson, H. A.**
 Brit. stromatoporioids P.S. ·5637(42)
 Monticulipora ·5636
 Nat. hist. ·5909(42)
 "Tabulate corals" ·5636(112)
- Nicholson, H. A., and Lydekker, R.**
 Palæontology ·5602
- Nicol, J.**
 Catechism of geol. A
 Elements of mineralogy A
 Geol. of N. of Scot. A
 Guide to geol. of Scot. ·55(41)
 Manual of mineralogy ·54902
- Nielsen, N.**
 Cylinderfunkt. ·51735
- Nielson, Y.**
 Univ. ethnogr. Sam-
 llinger ·572
- Niemann, F., and Profé, O.**
 Veterinär-Hygiene ·619 : 6149
- Nietzki, R.**
 Organic dye-stuffs ·6672
- Niggli, P.**
 Mineralogie ·54902
- Nilsson, M. P.**
 Time reckoning ·52904
- Nisbet, J.**
 Forester ·634
 Forestry ·634
- Nitzsch, C. L.**
 Pterylography f. ·5982
- Nocard, E. I. E.**
 Animal tuberculoses ·61921 : 616995
- Nocard, E. I. C., and Leclainche, E.**
 Maladies microbiennes ·619 : 5768
- Nodon, A.**
 Soleil ·5237
- Nordenskiöld, A. E.**
 Vega-expedit. ·5(98)
- Nordisches Plankton** ·5(261)
- Nordstedt, C. F. O.**
 Index desmidiacearum ·58961
- North American fauna** ·5919(7)
 — flora ·5819(7)
 — British agriculturist ·6305 N.B.
 — of Scotland Coll. of
 agric.
 Bulletins ·6306(4125) A.N.
 Former students' assoc.
 Trans. ·6306(4125) A.N.F.
 Minutes and proc.
 Ref. ·6306(4125) A.N.M.

NORTH—PAINLEVÉ

- North Sea fisheries.**
 Investigation comm. repts. ·59706(2612)
Northumberland and Durham. See
 Natural hist. soc.
Norton, T. H.
 Atmospheric nitrogen ·54617
Norwegian N. Atlantic
 exped. f. ·5(261)
Norwegisches meteorol.
 inst.
 Jahrbuch ·551506(48) N.M.
Noyes, W. A.
 Organ. chem. ·54702
Nuovo cemento ·5305 N.C.
 — giornale botan. ital-
 ano ·5805 N.G.
Nutting, C. C.
 Amer. hydroids f. ·5937(7)
- Oates, E. W., and Reid, S. G.**
 Birds' eggs B.M. ·5982
 — Corrections B.M. ·5982
Observatoire de Paris
 Mémoires ·5221(44) P.M.
 Observations ·5221(44) P.O.
Observatoire roy. de Belgique
 Annales ·5221(493) B.A.
 Annuaire astr. ·5221(493) B.A.A.
Observatory ·5205 o.
Ørsted, H. C.
 Elect.-magn. p. ·5383
Ohlsberg, O.
 Funkentelegr. ·53788
Oliveira, E. P. de
 Reg. carbon. dos Estados
 do Sul ·5532(814)
Oliver, D.
 Indian botany ·5819(54)
Oliver, F. W.
 Makers of Brit. botany ·58092(42)
Oliver, S. P.
 Life of P. Commerson ·58092
Oltmanns, F.
 Morphologie d. Algen ·5893 : 581
Onslow, M. W.
 Anthocyanin pigments ·581195
 Plant biochem. ·58119
Ontario nickel comm., R.
 Rept. ·55348
Oppel, A.
 Anat. d. Wirbelthiere ·5918 : 596
Ordnance Survey
 Methods ·5269(42)
Orkney nat hist. soc.
 Orcadian papers ·5706(4112) N.S.
Orloff, J. E.
 Formaldehyd ·54752
- Ormerod, E. A.**
 Eleanor Ormerod, LL.D. ·63092
 Injurious insects ·6327
Ormerod, F.
 Wool ·6363
Orwin, C. S.
 Farm accounts ·63 : 657
Osborn, H. F.
 Age of mammals ·599
 From Greeks to Darwin ·57509
 Origin of life ·575
Osborne, T. B.
 Proteins of wheat kernel ·63311
Osgood, W. F.
 Diff. and int. cal. ·5171
Ost, H.
 Tech. Chemie ·6602
Ostwald, W.
 Allgem. Chemie ·541
 Anal. chem. ·54301
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 Elektrochemie ·54113
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 Inorgan. chem. ·54602
 Kolloidchemie ·54114
 Solutions ·541
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 — — — ·51082
 — — — ·52082
 — — — ·53082
 — — — ·54082
 — — — ·58082
Otto, F. J.
 Chemie ·5402
Owen, Sir R.
 Brit. foss. Cetacea p.s. ·5695(1183 : 42)
 Mammalia of mesoz. form.
 P.S. ·569(116)
 Reptil. of cret. form. P.S. ·5681(117)
 — of Kimmer. clay P.S. ·5681(1162)
 — of liassic form. P.S. ·5681(1162)
 — of mesoz. form. P.S. ·5681(116)
 — of S. Africa B.M. ·5681(68)
 — of Wealdon form. P.S. ·5681(117)
Owen, Sir R., and Bell, T.
 Reptil. of Lond. clay P.S. ·5681(1181)
Owens, J. S., and Case, G. O.
 Coast erosion ·55135
Oxford Univ.
 Astr. catalogue ·5221(42) o.u.
- Packard, A. S.**
 Entomology ·595702
 Geometrid moths ·595785(73)
 Lamarek ·575092
Page, J. M.
 Diff. equations ·51738
Painlevé, P.
 Intégration ·51738

PAISLEY—PETERS

- Paisley naturalists' soc.**
Trans. '5706(4141) P.N.
- Palæontograph. soc.**
Members, monographs,
etc. P.S. '56069
Publications P.S. '56
- Palæontologia universalis** '56
- Palladin, V. I.**
Plant physiol. '5811
- Pammel, L. H.**
Poisonous plants '58165
Weed flora of Iowa '6325(777)
Weeds of the farm '6325
- Pan Amer. Scient. Congr.**
Reports '506(7:8) P.A.
- Parasitology** '5916905 P.
- Paris, E. G.**
Index bryologicus '588203
- Paris.** See **Observatoire.**
- Park, J.**
Geol. of New Zealand '55(931)
- Parker, G. H.**
Nervous system '570821 MON. 2
- Parker, T. J.**
Biology '5702
Zoology '5902
- Parker, T. J., and Haswell, W. A.**
Zoology '5902
- Parker, W. K.**
Mammalian descent '599:575
- Parkhurst, J. A.**
Stellar photometry '52382
- Parks, W. A.**
Building stones of Canada '5535(71)
- Parnell, R.**
Grasses of Britain '5849(42)
Grasses of Scot. '5849(41)
- Parsons, C. L.**
Beryllium '54645
- Partington, J. R.**
Inorganic chem. '54602
- Passon, M.**
Agrikulturchemie Ref. '63:5403
- Pasteur, L.**
Life: Vallery-Radot '54092
Vorhand. organ. Körper-
chen '57604
- Paulcke, W.**
Exper. in d. Geol. '5504
- Paxton's mag. of botany** '5805 P.M.
- Pearl, R.**
Variation in Ceratophyl-
lum '5752:583987
- Pearl, R., and Clawson, A. B.**
Variation in crayfish '5752:597
- Pearson, K.**
Grammar of science '501
Life of F. Galton '57092
- Pearson, W. H.**
Canadian Hepaticæ '5883(71)
- Peckham, G. W., and E. G.**
Wasps '5915:59579
- Pedersen, F. M.**
Friction of gases '5337
- Peet, J. O., and Taylor, H.**
Book-keeping '63:657
- Pelourde, F.**
Paléontologie végét. '561
- Pelly, S. A.**
Vertebrate pal. '566
- Pénard, E.**
Faune rhizopodique f. '59311(494)
- Penck, A.**
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— Institution.—Bureau of ethnology.
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Reports ·59706(73)
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