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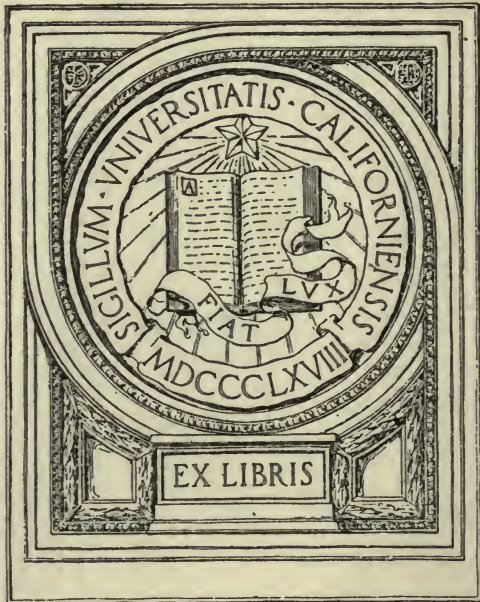
Cruickshank Science Library
Subject Catalogue

Aberdeen

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TO WHOM
IT MAY COME

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.

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·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

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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 (*bracket, colon, digit*), 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.

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·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

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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.
- '51 **Mathematics.**
- '511 **Arithmetic.**
- '51196 Tables.
- '512 **Algebra.**
- '5128 Higher Algebra.
- '51281 Theory of numbers.
- '51282 Theory of equations.
- '51283 Determinants.
- '51286 Groups.
- '51296 Tables.
- '513 **Geometry.**
- '5131 Plane Geometry.
- '51322 Geometrical Conics.
- '5135 Modern Geometry.
- '5138 Non-Euclidean Geometry.
- '514 **Trigonometry.**
- '5145 Plane Trigonometry.
- '5146 Spherical Trigonometry.
- '51496 Tables.
- '515 **Descriptive Geometry.**
- '5156 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 [*see also* '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 [*see also* '5446].
- '53585 Photography.
- '536 Heat.
- '5361 Theories.
- '5365 Temperature.
- '5367 Thermodynamics.
- '5368 Applications.
- '53681 Steam engine [*see also* '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 Geography.
- '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 Cœlenterata
 - '564 Mollusca
 - '565 Articulata
 - '566 Vertebrates
 - '567 Fishes
 - '5676 Amphibia
 - '5681 Reptiles
 - '5682 Birds
 - '569 Mammals
- } [as in '59].
-
- '57 **Biology.**
 - Anthropology.
 - '571 Prehistoric.
 - '572 Ethnologic.
 - '573 Natural history of Man [see also '5999].
 - Special Biology.
 - Evolution.
 - '575 Heredity.
 - '5751 Variation.
 - '5752 Environment.
 - '5753 Natural selection.
 - '5754 Degeneration.
 - '5757 Origin of life.
 - '576 Cells.
 - '5763 Bacteriology [see also '61601].
 - '5768 Properties of living matter.
 - '577 Biological chemistry.
 - '5771 Life.
 - '5772 Biological physics.
 - '5773

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	Geographical Botany
(2-9)	
	<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	Isoeteæ.
·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	Geographical Zoology
(2-9)	[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 [see also '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.
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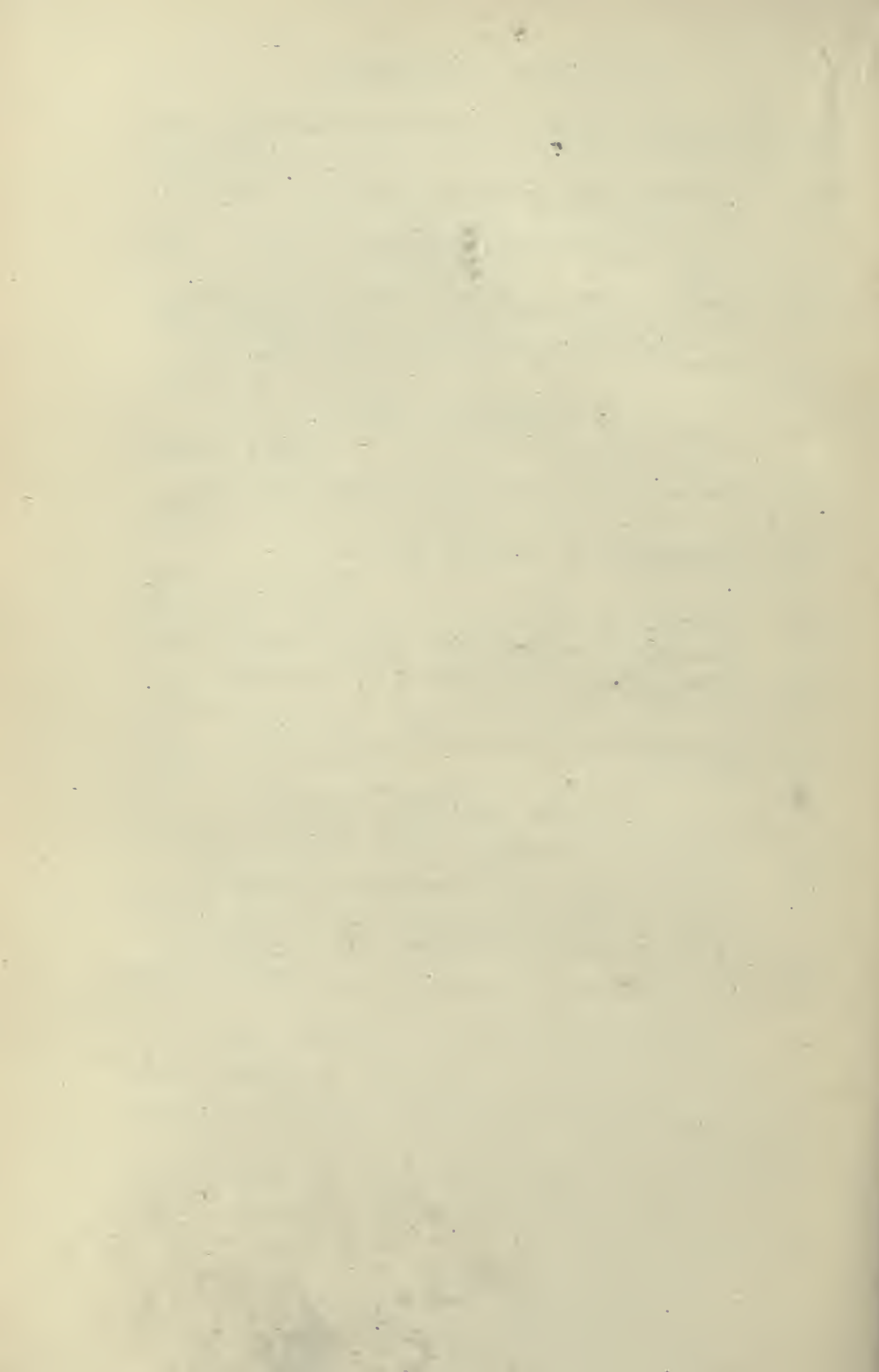
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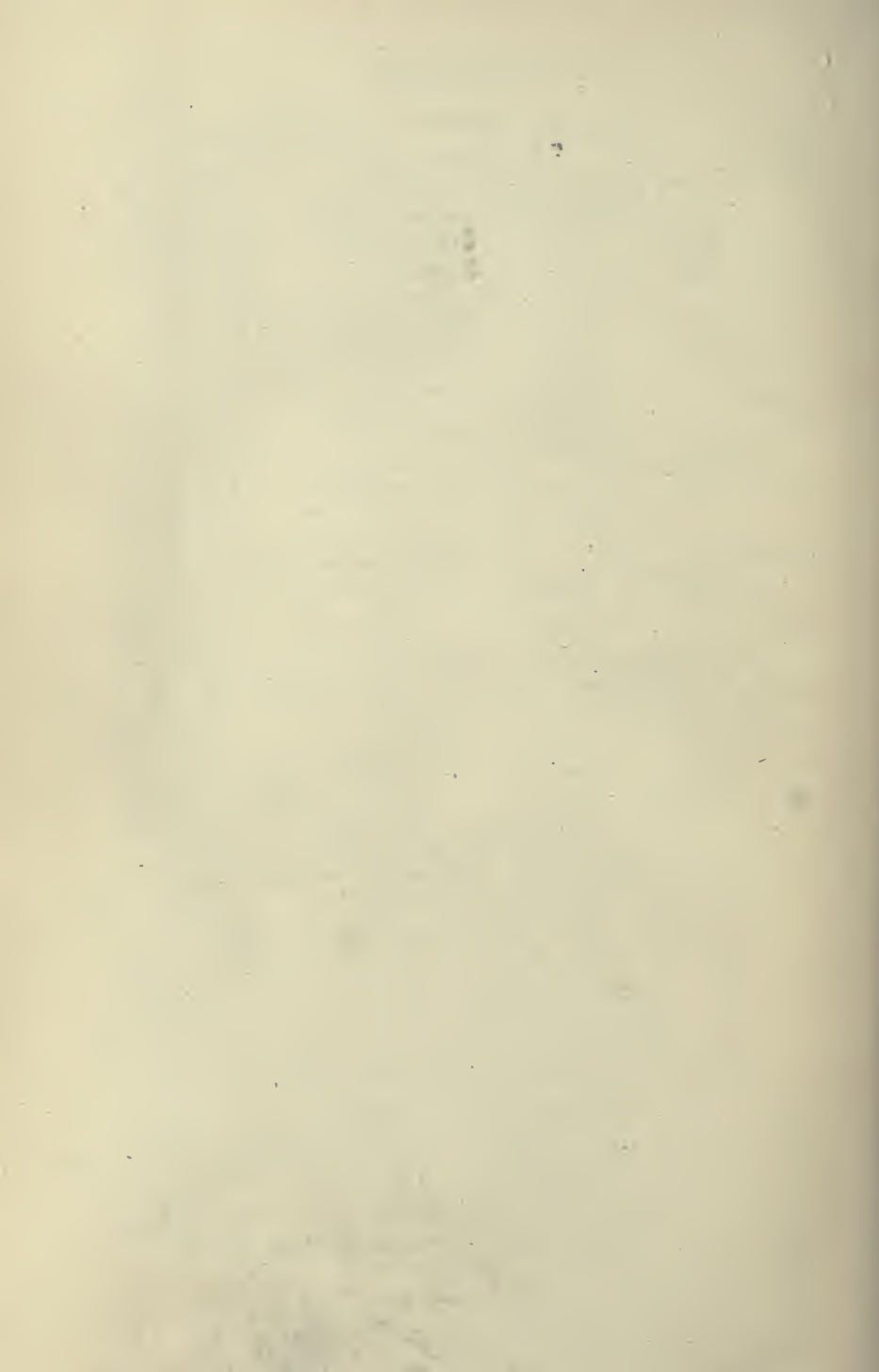
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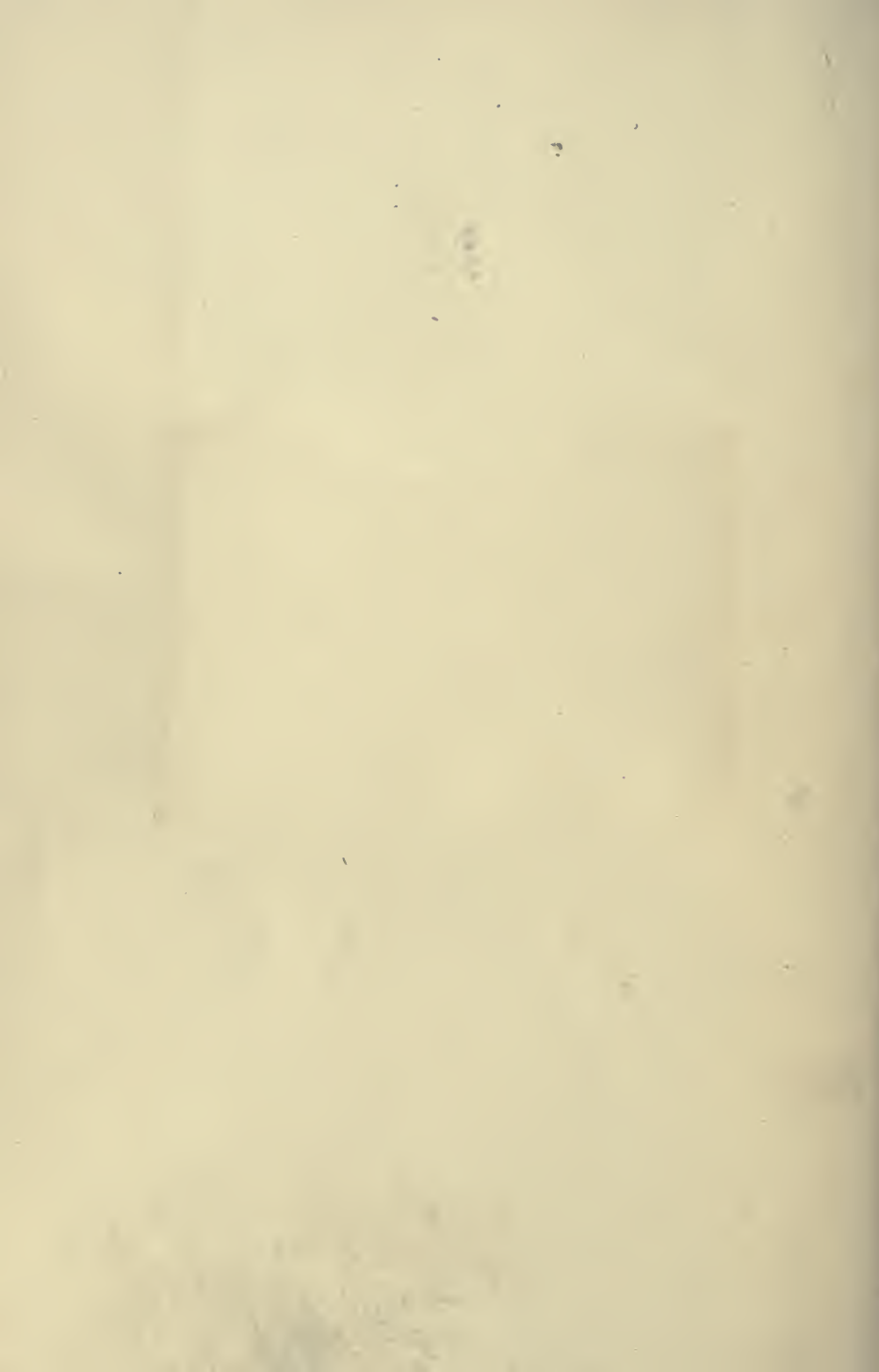
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