

**CLASSIFICATION FOR WORKS
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Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649083961

Classification for works on pure and applied science in the Science Library, the Science Museum by Various

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Edited by Trieste Publishing Pty Ltd.
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VARIOUS

**CLASSIFICATION FOR WORKS
ON PURE AND APPLIED
SCIENCE IN THE SCIENCE
LIBRARY, THE SCIENCE MUSEUM**

BOARD OF EDUCATION, SOUTH
KENSINGTON.

CLASSIFICATION
FOR WORKS ON
PURE AND APPLIED SCIENCE
IN THE
SCIENCE LIBRARY,
THE SCIENCE MUSEUM.

SECOND EDITION.



LONDON:
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

To be purchased through any bookseller or directly from
H.M. STATIONERY OFFICE at the following addresses:
IMPERIAL HOUSE, KINGSWAY, LONDON, W.C. 2, and 28, ABINGDON STREET, LONDON, S.W. 1;
37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF;
23, FORTH STREET, EDINBURGH;
or from K. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

1921.

Price 18s. *Net*.

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NOTE.

This classification is intended for use in connection with the Card Subject Catalogue in the Science Library. This consists of titles on cards which are numbered and arranged in accordance with the Classification. Under each number the titles are in chronological order. To ascertain what books the library has on a given subject, readers are recommended to look first in the Index and then refer to the Classification before consulting the cards. If no card should be found under a particular subhead the next more general heading should be referred to. A particular work, the author of which is known, will be found more readily from the Author Catalogue.

CLASSIFICATION FOR WORKS ON PURE AND APPLIED SCIENCE.

500. SCIENCE (GENERAL).

- 501 Works on Science published before 1800.
- 501·5 Bibliography.
- 502 Philosophies. Theories. Classification of the Sciences.
- 2 Text Books.
- 3 Physiography.
- 5 General Experimental Science.
- 6 Museums and Museum Administration.
- 63 Preparation and Preservation of Specimens. Museum Pests.
- 67 Classification and Exhibition of Objects. Cases and Fittings. Labels. Publications of Museums. *See* 506.
- 8 Instruments and Apparatus.
- 9 Popular Science. Scientific Recreations.
- 503 Dictionaries and Encyclopædias.
- 504 Essays, Lectures and Addresses.
- 8 Collected Papers.
- 505 Journals.
- 506 Transactions of Societies.
- 5 Congresses.
- 7 Exhibitions.
- 507 Science Teaching.
- 5 Scientific Research.
- Manual Training. *See* 680·7.
- Technical Education. *See* 607.
- 508 Scientific Expeditions and Travels. Natural History of different Countries.
- [Arranged according to countries by placing the Topographical numbers, 990 to 999, with "99" omitted, in round brackets after 508.]
- 509 History of Science.
- 5 Biography. Collected Biographies of Scientific Men.

510. MATHEMATICS.

- 510·1 Works on Mathematics published before 1800.
- 15 Bibliography.
- 2 Text Books.
- 22 Practical Mathematics.
- 24 Mathematical Recreations.
- 29 Collections of General Problems.
- 3 Dictionaries and Encyclopædias.
- 39 Collections of Formulae.
- 4 Essays, Lectures and Addresses.

MATHEMATICS—continued.

- 510·5 Journals.
 ·6 Transactions of Societies.
 ·65 Congresses.
 ·67 Exhibitions.
 ·7 Teaching of Mathematics.
 ·8 Collected Works.
 ·9 History of Mathematics.
 ·95 Biography.
- 511 **Arithmetic.**
 ·1 Mercantile Rules. Commercial Arithmetic.
 ·15 Book-keeping.
 Mining Book-keeping. *See* 658·85.
 ·19 Collections of Arithmetical Problems.
- 512 **Algebra.**
 ·09 Collections of Algebraical Problems.
 ·1 Combinatory Analysis. Permutations and
 Combinations.
 ·2 Theory of Groups. Transformations. Sub-
 stitutions. Invariants.
 ·3 Determinants. Matrices.
 ·4 Theory of Forms (Linear, Binary, Ternary,
 Quadratic, &c.). Quantics.
 ·5 Theory of Equations.
 ·55 Graphic Algebra. Graphs.
 ·6 Theory of Numbers.
 ·7 Probabilities.
 ·73 Method of Least Squares. Errors of
 Observation.
 ·76 Statistics. Actuarial Mathematics. An-
 nuities. Life Assurance.
 ·8 Calculus of Finite Differences. Interpolation.
 ·9 Universal Algebra.
 ·91 Calculus of Operations.
 ·93 Calculus of Position and Extension.
 Ausdehnungslehre.
 ·94 Vector Analysis.
 ·95 Quaternions.
 ·96 Biquaternions. Octonions.
 ·98 Applications of Mathematics to Logic.
- 513 **Infinitesimal Calculus.**
 ·1 Differential Calculus.
 ·2 Integral Calculus.
 ·25 Calculus of Variations.
 ·3 Differential Equations.
 ·35 Partial Equations.
 ·9 Collections of Problems on the Infinitesimal
 Calculus.

- 514 Theory of Functions.**
- 1 Infinite Series. Sets of Points.
 - 2 Uniform Functions.
 - 3 Multiform Functions. Riemann's Surfaces.
 - 35 Algebraic Functions. Integral Functions.
 - 4 Logarithmic, Circular and Exponential Functions.
 - 5 Elliptic Functions. Modular Functions.
 - 6 Abelian Functions. Theta Functions.
 - 7 Harmonic Analysis.
 - 71 Fourier's Series.
 - 72 Legendre's and Laplace's Functions. Spherical Harmonics.
 - 73 Bessel's Functions. Cylindrical Harmonics.
 - 74 Lamé's Functions. Ellipsoidal Harmonics.
 - 75 Toroidal and other Harmonics.
 - 8 Integral Equations. Difference Equations and Functional Equations.
 - 9 Miscellaneous Special Functions. Gamma Functions. Hypergeometric, Automorphic, &c., Functions.
- 515 Pure Geometry.**
- 1 Euclidian Geometry, Geometry of Triangle and Circle.
 - 2 Works based on Euclid's Elements ("Euclids").
 - 29 Quadrature of Circle, Duplication of Cube, Trisection of Angle.
 - 3 Conic Sections.
 - 4 Solid Geometry.
 - 6 Projective Geometry.
 - 7 Absolute Geometry. Non-Euclidian Geometry.
 - 8 Geometry of Space of n Dimensions.
 - 9 Collections of Geometrical Problems.
- 516 Descriptive Geometry.**
- 1 Projection.
 - 3 Perspective.
 - 5 Practical Geometry and Geometrical Drawing.
 - 6 Shades and Shadows.
 - 7 Stereotomy.
 - 75 Stone-cutting.
 - 8 Mensuration.
- 517 Trigonometry.**
- 1 Plane Trigonometry. General Formulæ.
 - 2 Solution of Plane Triangles.
 - 5 Spherical Trigonometry. General Formulæ.

TRIGONOMETRY—continued.

- 517·6 Solution of Spherical Triangles.
- 8 Trigonometry on Surfaces other than the Plane and Sphere.
- 9 Collections of Problems on Trigonometry.

518 Analytical Geometry.

- 1 Plane Loci.
- 2 Trilinear Co-ordinates and Abridged Notation.
- 3 Conic Sections, including Straight Line and Circle.
- 37 Higher Plane Curves. Cubics, Bi-quadratics, &c.
- 4 Loci in Space.
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- 5 Conicoids or Quadrics.
- 55 Cubic Surfaces.
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- 6 General Theory of Surfaces. Differential Geometry.
- 7 General Theory of Curves in Space.
- 8 Special Curves on Surfaces.
- 9 Collections of Problems in Analytical Geometry.

519 Aids to Calculation.

- 1 Models.
- 2 Tables of Logarithms and Trigonometric Functions.
- 3 Other Tables.
- 4 Calculating Machines.
- 41 Arithmometers.
- 42 Slide Rule.
- 43 Integrators. Planimeters. Harmonic Analysers.
- 5 Mathematical Instruments.
- 6 Graphic Processes. Graphic Arithmetic.
See also 512·55.
- 7 Special Methods of Calculation.

520. ASTRONOMY.

- 520·1 Works on Astronomy published before 1800.
- 15 Bibliography.
- 2 Text Books.
- 24 Astrology.
- 25 Popular Astronomy.
- 3 Dictionaries and Encyclopædias.
- 4 Essays, Lectures and Addresses.

ASTRONOMY—continued.

- 520·5 Journals.
 ·6 Transactions of Societies, including Publications
 of Observatories.
 ·65 Congresses.
 ·67 Exhibitions.
 ·7 Teaching of Astronomy. Use of Globes.
 ·8 Collected Works.
 ·9 History of Astronomy.
 ·95 Biography.
- 521 Spherical Astronomy.**
 ·3 Correction and Reduction of Observations.
 ·9 Prediction of Eclipses, Occultations and Transits.
- 522 Theoretical Astronomy.**
 ·2 Calculation of Orbits.
 ·27 Problem of Three Bodies.
 ·3 Perturbations. Planetary Theory.
 ·31 Mercury and Intra-Mercurial Planets.
 Theory and Tables.
 ·32 Venus. Theory and Tables.
 ·33 Earth. Theory and Tables.
 ·34 Mars. Theory and Tables.
 ·35 Asteroids. Theory and Tables.
 ·36 Jupiter. Theory and Tables.
 ·37 Saturn. Theory and Tables.
 ·38 Uranus. Theory and Tables.
 ·39 Neptune and Trans-Neptunian Planets.
 Theory and Tables.
 ·4 Theory of Satellites.
 [As above, separately for each planet.]
 ·43 Earth. Lunar Theory.
 ·47 Saturn, including Ring System.
 ·5 Theory of Comets.
 ·6 Figures of the Sun and Planets considered as
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