

## NEW PUBLICATIONS

## PART I. PURE MATHEMATICS

- ALLIAUME (M.). Cours de géométrie analytique. Tome II: Contact du premier ordre. Familles de quadriques. Tome III: Etude des surfaces. Louvain, Uystpruyst, 1930. 263+283 pp.
- ARTIN (E.). See VAN DER WAERDEN (B. L.).
- BECKER (O.). Zur Logik der Modalitäten. Halle, Niemeyer, 1930. 52 pp.
- BRAITHWAITE (R. B.). See RAMSEY (F. P.).
- BRINK (R. W.) and THORP (E.). Tutorial exercises in trigonometry. New York, Century, 1931. 102 pp.
- BURKE (L.). On a case of the triangles in-and-circumscribed to a rational quartic curve with a line of symmetry. (Dissertation, Catholic University.) Washington, 1931. 15 pp.
- ČECH (E.). See FUBINI (G.).
- COHEN (C.). God and the universe. Eddington, Jeans, Huxley and Einstein. With a reply by Professor A. S. Eddington. London, the Pioneer Press, n. d. 133 pp.
- COOPER (H. O.). Slide rule regulations. London, Oxford University Press, 1931. 132 pp.
- DEDEKIND (R.). Gesammelte mathematische Werke. Herausgegeben von R. Fricke, E. Noether, O. Ore. 2ter Band. Braunschweig, Vieweg, 1931. 2+442 pp.
- DIJKSTERHUIS (E. J.). Het getal in die Grieksche wiskunde. Groningen, Noordhoff, 1930. 18 pp.
- DE DONDER (T.). Théorie invariante du calcul des variations. Paris, Gauthier-Villars, 1931.
- EASTHAM (J. N.). The triangles in-and-circumscribed to the tacnodal rational quartic curve with residual crunode. (Dissertation, Catholic University.) Washington, 1931. 20 pp.
- EDDINGTON (A. S.). See COHEN (C.).
- FALCKENBERG (H.). Komplexe Reihen nebst Aufgaben über reelle und komplexe Reihen. Berlin, de Gruyter, 1931. 140 pp.
- FRICKE (R.). See DEDEKIND (R.).
- FUBINI (G.) et ČECH (E.). Introduction à la géométrie projective différentielle des surfaces. Paris, Gauthier-Villars, 1931. 6+291 pp.
- GARCIA (G.). La métrica en un espacio múltiplo. 1er fascicule. Lima, Imprenta Casanova, 1930. 22 pp.
- GENT (W.). Die Philosophie des Raumes und der Zeit. Band 2: Die Raum-Zeit-Philosophie des 19. Jahrhunderts. Bonn, Friedrich Cohen, 1930. 397 pp.
- GODEAUX (L.). La géométrie. Liège, Thone, et Paris, Hermann, 1931. 181 pp.

- GOUGH (M. DE L.). On the condition for the existence of triangles in-and-circumscribed to certain types of the rational quartic curve having a common side. (Dissertation, Catholic University.) Washington, 1931. 27 pp.
- GRAHAM (P. H.) and JOHN (F. W.). Advanced algebra. New York, Prentice-Hall, 1930. 257 pp.
- GREGORY (J. C.). A short history of atomism from Democritus to Bohr. London, A. and C. Black, 1931. 6+258 pp.
- GUNN (J. W. M.). Trigonometry test papers. London, Rivingtons, 1931. 12+92 pp.
- HAGEN (J. G.). *Metrische Differentialgeometrie der Ebene und des Raumes*. Berlin-Lichterfelde, Verlag Dames, 1930. 401 pp.
- HEISEL (C. T.). Behold! The grand problem no longer unsolved. The circle squared beyond refutation. Cleveland, C. T. Heisel, 1931. 16+128 pp.
- HÖGBERG (O.). *Déduction rationnelle de la loi de gravitation et solution du problème de  $N$  corps. La dynamique planétaire et satellitaire réduite en générale à une solution simple et rationnelle*. Paris, Gauthier-Villars, 1930.
- JEFFREYS (H.). *Scientific inference*. Cambridge, University Press, 1931. 7+247 pp.
- JOHN (F. W.). See GRAHAM (P. H.).
- JOHNSON (W. W.). *Equations différentielles*. Traduit de l'anglais par A. Sallin. Paris, Les Presses Universitaires de France, 1930. 82 pp.
- JULIA (G.). *Leçons sur la représentation conforme des aires simplement connexes*. (Cahiers Scientifiques, No. 8.) Paris, Gauthier-Villars, 1931. 8+114 pp.
- KEYSER (C. J.). *Humanism and science*. New York, Columbia University Press, 1931. 24+243 pp.
- KLUGE (R.). *Eine Anwendung infinitesimaler Berührungstransformationen in der Variationsrechnung*. Leipzig, Schwarzenberg und Schumann, 1930. 50 pp.
- LANZ (H.). *The physical basis of rime. An essay on the aesthetics of sound*. London, Oxford University Press, 1931. 14+365 pp.
- LICHTENSTEIN (L.). *Zur Einführung in die Philosophie von Emile Meyerson. Sonderabdruck aus Identität und Wirklichkeit, von Emile Meyerson*. Leipzig, Akademische Verlagsgesellschaft, 1930. 40 pp.
- LIETZMANN (W.). *Mathematik und bildende Kunst*. Breslau, Hirt, 1931. 150 pp.
- Der Pythagoreische Lehrsatz mit einem Ausblick auf das Fermatsche Problem. 4te durchgesehene Auflage. (Mathematisch-Physikalische Bibliothek.) Leipzig, Teubner, 1930. 4+71 pp.
- MANNOURY (G.). *Woord en gedachte. Een inleiding tot de signifika, inzonderheid met het oog op het onderwijs in de wiskunde*. Groningen, Noordhoff, 1931. 61 pp.
- MEYERSON (E.). See LICHTENSTEIN (L.).
- MORRISON (C. M.). *The triangles in-and-circumscribed to the biflecnodal rational quartic*. (Dissertation, Catholic University.) Washington, 1931. 16 pp.
- MUELLER (C.). *Geometric concepts*. New York, Wiley, 1931.

- MULLER (M.). *Essai sur la philosophie de Jean d'Alembert*. Paris, Payot, 1930. 313 pp.
- NIELSEN (N.). *Recherches numériques sur certaines formes quadratiques*. Copenhagen, Levin and Munksgaard, 1931. 160 pp.
- NOETHER (E.). See DEDEKIND (R.), VAN DER WAERDEN (B. L.).
- ORE (O.). See DEDEKIND (R.).
- ORTHNER (R.). *Wesen und Wahrheitswert der physikalischen Beweisführung*. Linz, 1931.
- VON PAULER (A.). *Logik. Versuch einer Theorie der Wahrheit*. Aus dem Ungarischen übersetzt von J. Somogyi. Berlin, de Gruyter, 1929. 294 pp.
- PETZOLD (L. H.). *Die Restfunktionen und ihre Anwendung auf Fragen der Baustatik*. Stuttgart, Wittwer, 1931. 70 pp.
- RAMSEY (F. P.). *The foundations of mathematics and other logical essays*. Edited by R. B. Braithwaite. London, Kegan Paul, 1931. 18+292 pp.
- ROBINSON (D. S.). *The principles of reasoning. An introduction to logic and scientific method*. 2d edition. New York, Appleton, 1931. 18+393 pp.
- SALLIN (A.). See JOHNSON (W. W.).
- SCHREIER (O.) und SPERNER (E.). *Einführung in die analytische Geometrie und Algebra*. I. (Hamburger Mathematische Einzelschriften, Heft 10.) Leipzig, Teubner, 1931. 238 pp.
- SHORTER (L. R.). *Introduction to vector analysis*. New York and London, Macmillan, 1931. 14+356 pp.
- SOMOGYI (J.). See VON PAULER (A.).
- SPERNER (E.). See SCHREIER (O.).
- STAMMLER (G.). *Leibnitz*. München, E. Reinhardt, 1930. 183 pp.
- THOMPSON (A. J.). *Logarithmetica Britannica*. Being a standard table of logarithms to twenty decimal places. Part 5: Numbers 50,000 to 60,000. (Tracts for Computers, No. 17.) Cambridge, University Press, 1931. 4+100 pp.
- THORP (E.). See BRINK (R. W.).
- TOMBROCK (W.). *Matter and logic. An attempt at a logical explanation of material properties and natural phenomena*. Bergen op Zoom, the Author, 1930. 16 pp.
- VAUDREUIL (M. F.). *Two correspondences determined by the tangents to a rational cuspidal quartic with a line of symmetry*. (Dissertation, Catholic University.) Washington, 1931. 19 pp.
- VEBLEN (O.). *Analysis situs*. 2d edition. (American Mathematical Society, Colloquium Publications, volume 5, part 2.) New York, American Mathematical Society, 1931. 10+194 pp.
- VAN DER WAERDEN (B. L.). *Moderne Algebra*. Unter Benutzung von Vorlesungen von E. Artin und E. Noether. 2ter Teil. Berlin, Springer, 1931. 8+216 pp.
- WEYL (H.). *Die Stufen des Unendlichen*. Jena, Gustav Fischer, 1931.
- WITTING (A.). *Differentialrechnung*. (Sammlung Göschen.) Berlin, de Gruyter, 1931. 191 pp.
- ZERVOS (P.). *Infinitesimal calculus*. Volume 1. (In Greek.) Athens, 1929. 389 pp.

## PART II. APPLIED MATHEMATICS

- ANGLE (G. D.). Engine dynamics and crank-sheet design. New York, Simmons-Boardman, 1931. 300 pp.
- ANGUS (R. W.). Hydraulics for engineers, including turbines and pumps and unsteady motion. London, Pitman, 1931. 12+304 pp.
- BECKER (G.), FROMM (H.), und MARUHN (H.). Schwingungen in Automobillenkungen ("Shimmy"). Berlin, M. Krayn, 1931. 150 pp.
- BEDAUE (F.). Cours élémentaire de télégraphie et téléphonie sans fil. Paris, Vuibert, 1931. 8+424 pp.
- BREMEKAMP (H.). See LORENTZ (H. A.).
- BRILL (A.). Über Keplers Astronomia nova. Stuttgart, Enke, 1930. 15 pp.
- VAN DEN BROEK (J. A.). Elastic energy theory. New York, Wiley, 1931. 10+260 pp.
- BRUNET (P.). L'introduction des théories de Newton en France au XVIII<sup>e</sup> siècle avant 1738. Paris, Albert Blanchard, 1931. 8+355 pp.
- CAMP (B. H.). The mathematical part of elementary statistics. A textbook for college students. Boston, Heath, 1931. 22+409 pp.
- CHADWICK (J.). See RUTHERFORD (E.).
- CRENSHAW (B.), PIRENIAN (Z. M.), and SIMPSON (T. M.). Mathematics of finance. New York, Prentice-Hall, 1930. 14+384 pp.
- DARROW (K. K.). Elementare Einführung in die physikalische Statistik, insbesondere in die Theorie des metallischen Zustandes. Aus dem Englischen übersetzt und ergänzt von E. Rabinowitsch. Leipzig, Hirzel, 1931. 7+118 pp.
- DEDONDER (T.). La gravifique einsteinienne. Six conférences données à l'Institut H. Poincaré. Paris, Imprimerie des Presses Universitaires de France, 1930.
- DREYER (G.). Statik und Festigkeit. Band 1: Formelsammlung zur Festigkeitslehre und Elastizitätslehre. 5te vermehrte und verbesserte Auflage. Leipzig, Jänecke, 1931. 154 pp.
- EGGERT (O.). See JORDAN (W.).
- EINSTEIN (A.). See NEWTON (I.).
- ELLIS (C. D.). See RUTHERFORD (E.).
- ESCLANGON (F.). See HAAS (A.).
- FAJANS (K.). and WÜST (J.). Textbook of physical chemistry. New York, Dutton, 1930. 233 pp.
- FOKKER (A. D.). See LORENTZ (H. A.).
- FROMM (H.). See BECKER (G.).
- GALBRUN (H.). Propagation d'une onde sonore dans l'atmosphère et théorie des zones de silence. Paris, Gauthier-Villars, 1931. 352 pp.
- GÁLVEZ LAGUARTA (E. M.). Problemas de química y física. Zaragoza, 1930.
- GARRATT (G. A.). The mechanical properties of wood. New York, Wiley, 1931. 9+276 pp.
- GEMANT (A.). Elektrophysik der Isolierstoffe. Berlin, Springer, 1930. 222 pp.
- GILLES (A.), HOFF (L.), und VON KÁRMÁN (T.). Vorträge aus dem Gebiete der Aerodynamik (Aachen 1929). Berlin, Springer, 1930. 221 pp.
- GLASTONE (S.). The electrochemistry of solutions. London, Methuen, 1930. 10+476 pp.

- DE GRAFFIGNY (H.). Pour bien comprendre l'électricité. Paris, Albin Michel, 1930. 179 pp.
- GUILLEMIN (E. A.). Communication networks. Volume 1: The classical theory of lumped constant networks. New York, Wiley, 1931. 12+425 pp.
- GUTTON (C.). Les ondes électriques. Paris, Hermann, 1930.
- HAAS (A.). Quanta et chimie. Traduit de l'allemand par J. Perremot et F. Esclagon. Paris, Gauthier-Villars, 1931. 70 pp.
- HARMS (F.). See WIEN (W.).
- HOPF (L.). See GILLES (A.).
- HUME-ROTHERY (W.). The metallic state. Electrical properties and theories. Oxford, Clarendon Press, 1931. 372+20 pp.
- HUMPHREY (D.). Intermediate mechanics. Statics and hydrostatics. London and New York, Longmans, 1931. 12+438 pp.
- HUNNIUS (G.). Dynamik fester Körper für höheren technischen Lehranstalten. Leipzig, Jänecke, 1931. 128 pp.
- JEANS (J.). The stars in their courses. Cambridge, University Press, 1931. 173 pp.
- JORDAN (W.) und REINHERTZ (C.). Handbuch der Vermessungskunde. 9te, erweiterte Auflage, bearbeitet von O. Eggert, 2ter Band. 1ter Halbband. Stuttgart, Metzlersche Verlagsbuchhandlung, 1931. 14+572 pp.
- KAPLAN (V.) und LECHNER (A.). Theorie und Bau von Turbinen-Schnellläufern. München, Oldenbourg, 1931. 9+301 pp.
- KARI (A.). The design of merchant ships and cost estimating. 3d edition, revised and enlarged. London, Crosby Lockwood, 1930. 13+318 pp.
- VON KÁRMÁN (T.). See GILLES (A.).
- KAYSER (H.) und KONEN (H.). Handbuch der Spektroskopie. Band 7, Lieferung 2. Leipzig, Hirzel, 1930. 499 pp.
- KONEN (H.). See KAYSER (H.).
- LECHNER (A.). See KAPLAN (V.).
- LEVINSON (H. C.) and ZEISLER (E. B.). The law of gravitation in relativity. 2d edition. Chicago, University of Chicago Press, 1931. 127 pp.
- LINDSAY (R.). See STEWART (G. W.).
- LOEB (L. B.). Fundamentals of electricity and magnetism. New York, Wiley, 1931. 20+432 pp.
- LORENTZ (H. A.). Lectures on theoretical physics. Volume III: Maxwell's theory, edited by H. Bremekamp; The principle of relativity for uniform translations, edited by A. D. Fokker. London, Macmillan, 1931.
- MARUHN (H.). See BECKER (G.).
- MESNY (R.). Les réseaux électromagnétiques et leurs applications. (Mémorial des Sciences Physiques, No. 13.) Paris, Gauthier-Villars, 1930. 56 pp.
- MOULLIN (E. B.). The theory and practice of radio frequency measurements. 2d edition, entirely re-set and greatly enlarged. London, Griffin, 1931. 12+487 pp.
- MOULTON (F. R.). Astronomy. New edition. New York, Macmillan, 1931. 24+549 pp.
- NEWTON (I.). Opticks: or a treatise of the reflections, refractions, inflections and colours of light. Reprinted from the fourth edition, with a foreword by A. Einstein and an introduction by E. T. Whittaker. London, Bell, 1931. 30+414 pp.

- NIGHTINGALE (E.). Magnetism and electricity. London, Bell, 1931. 16+294 pp.
- ORTHNER (R.). Mechanische und optisch-elektrische Vorgänge an bewegten Körpern im Lichte der neuen Deutung des Michelson-Phänomens. Linz a. d. D., 1930.
- NOLASCO DE ALINCIDA (T.). Einstein versus Michelson. Rio de Janeiro, Imprimerie Navale, 1930. 26 pp.
- NUBAR (Z.). Le premier principe, Rien n'est arbitraire. La mécanique fondée sur une théorie des chocs durs. Paris, Blanchard, 1930. 407 pp.
- PERREMOT (J.). See HAAS (A.).
- PIRENIAN (Z. M.). See CRENSHAW (B. E.).
- PÖSCHL (T.). See WITTENBAUER (F.).
- POOR (V. C.). Electricity and magnetism. The mathematical theory. New York, Wiley, 1931. 10+183 pp.
- RABINOWISCH (E.). See DARROW (K. K.).
- REINHERTZ (C.). See JORDAN (W.).
- RUTHERFORD (E.), CHADWICK (J.), and ELLIS (C. D.). Radiations from radioactive substances. Cambridge, University Press, 1930. 12+588 pp.
- SALLIN (A.). See WOODWARD (R. S.).
- SCHILLER (L.). See WIEN (W.).
- SCHÜTT (K.). Einführung in die Physik des Fliegens. Berlin-Charlottenburg, C. J. E. Volkmanns Nachfolger, 1931. 125 pp.
- SCHWAIGER (A.). Hochspannungsleitungen: Grundlagen und Methoden zur praktische Berechnung von Leitungen für die Übertragung elektrischer Energie. München, Oldenbourg, 1931. 139 pp.
- SHAPLEY (H.). Flights from chaos. A survey of material systems from atoms to galaxies. New York and London, McGraw-Hill, 1930. 7+168 pp.
- SIMPSON (T. M.). See CRENSHAW (B. E.).
- SMART (W. M.). Text-book on spherical astronomy. Cambridge, University Press, 1931. 414 pp.
- STARK (J.). Atomstrukturelle Grundlagen der Stickstoffchemie. Leipzig, Barth, 1931. 44 pp.
- STEFFENSEN (J. F.). Some recent researches in the theory of statistics and actuarial science. Cambridge, University Press, 1930.
- STEWART (G. W.) and LINDSAY (R.). Acoustics. A text on theory and applications. London, Chapman and Hall, 1931. 9+358 pp.
- WHITTAKER (E. T.). See NEWTON (I.).
- WIEN (W.) und HARMS (F.). Handbuch der Experimentalphysik. Band 4, Teil 1: Strömungslehre und allgemeine Versuchstechnik. Herausgegeben von L. Schiller. Leipzig, Akademische Verlagsgesellschaft, 1931. 730 pp.
- WITTENBAUER (F.). Aufgaben aus der technischen Mechanik. 4te, vollständig umgearbeitete Auflage, herausgegeben von T. Pöschl. Band 2. Berlin, Springer, 1931. 8+318 pp.
- WOODWARD (R. S.). Calcul des probabilités et théorie des erreurs. Traduit de l'anglais par A. Sallin. Paris, Les Presses Universitaires de France, 1930. 56 pp.
- WÜST (J.). See FAJANS (K.).
- ZEISLER (E. B.). See LEVINSON (H. C.).