NEW PUBLICATIONS

PART I. PURE MATHEMATICS

BACHMANN (P.). Zahlentheorie. Versuch einer Gesamtdarstellung dieser Wissenschaft in ihren Hauptteilen. Teil 4: Die Arithmetik der quadratischen Formen. 2te Abteilung. Leipzig, Teubner, 1923. 22 + 537 pp.

BAKER (H. F.). Principles of geometry. Volume III: Solid geometry: quadrics, cubic curves in space, cubic surfaces. Cambridge, University Press, 1923. 20 + 228 pp.

BRENKE (W. C.). See DAVIS (E. W.).

CASTLE (F.). Four-figure mathematical tables. London, Macmillan, 1923. 48 pp.

CISOTTI (U.). Lezioni di analisi matematica. 2a edizione. Milano, Tamburini, 1920.

CREAK (T. C.). See CUNNINGHAM (A.).

CUNNINGHAM (A.) and CREAK (T. C.). Fundamental congruence solutions. London, Hodgson, 1923. 18 + 92 pp.

DAVIS (E. W.) and BRENKE (W. C.). The calculus. Revised edition. New York, Macmillan, 1923. 10 + 346 pp.

DOEHLEMANN (K.). Projektive Geometrie in synthetischer Behandlung. 1ter Teil. 5te Auflage. (Sammlung Göschen.) Berlin, de Gruyter, 1922. 132 pp.

FORD (W. B.). A brief course in college algebra. New York, Macmillan, 1923. 7 + 264 pp.

FRAENKEL (A.). Einleitung in die Mengenlehre. 2te erweiterte Auflage. (Courant Series of Monographs.) Berlin, Springer, 1923. 10 + 251 pp.

VAN HAAFTEN (M.). Het Wiskundig Genootschap (Amsterdam). Zijn oudste geschiedenis, zijn werkzaamheden en zijn beteekenis voor het verzekeringswezen. Groningen, Noordhoff, 1923. 163 pp.

IRWIN (J. O.). On quadrature and cubature; or on methods of determining approximately single and double integrals. (Tracts for Computers, No. 10.) London, Cambridge University Press, 1923. 78 pp.

KNOPF (O.). Wahrscheinlichkeitsrechnung. I-II. (Sammlung Göschen.) Berlin, de Gruyter, 1923. 112 + 112 pp.

LEVY (H.). See VON SANDEN (H.).

PICONE (M.). Lezioni di analisi infinitesimale. Volume 1: La derivazione e l'integrazione (parte prima). Catania, Publicazioni del "Circolo Matematico," 1923. 11 + 347 pp.

RAABE (C.). Eine Anwendung der Zetafunktionen auf die Idealzerlegung und Diskriminantenbestimmung in Klassenkörpern. (Dissertation.) Hamburg, Lütcke und Wulff, 1921. 8 pp.

ROBINSON (G.). See WHITTAKER (E. T.).

VON SANDEN (H.). Practical mathematical analysis. With examples by the translator, H. Levy. London, Methuen, 1923. 15 + 195 pp.

SCORZA (G.). Corpi numerici ed algebre. Messina, Principato, 1921.
9 + 451 pp.

STEINHAGEN (P.). Beiträge zur Theorie der konvexen Körper. (Disser-
tation.) Göttingen, L. Hofer, 1920. 8 pp.

STUYVAERT (M.). Introduction à la méthodologie mathématique. Gand,
Van Rysselberghe et Rombaut, et Paris, A. Blanchard, 1923. 8vo.
257 pp.

TROPFKE (J.). Geschichte der Elementar-Mathematik. 2te, verbesserte und
vermehrte Auflage. 5ter Band. Berlin, W. de Gruyter, 1923. 185 pp.

DE LA VALLÉE POUSSIN (C. J.). Cours d'analyse infinitésimale. 5e
édition refondue. Tome 1. Paris, Hermann, 1923.

VERRIEST (G.). Cours de mathématiques générales. Partie 1: Calcul
différentiel. Géométrie analytique à deux dimensions. Louvain,
Editions Universitas, et Paris, Gauthier-Villars, 1923. 2 + 337 pp.

DE VRIES (H.). Leerboek der differentiaal- en integraalrekening, en van
der differentiaalvergelijkingen. Deel III: Differentiaalvergelijkingen.
Groningen, Noordhoff, 1922. 6 + 551 pp.

WEITZENBÖCK (R.). Over de vierde dimensie. Groningen, Noordhoff,
1921. 3 + 411 pp.

WHITTAKER (E. T.) and ROBINSON (G.). A short course in interpolation.
London, Blackie, 1923. 8 + 71 pp.

WIELEITNER (H.). Geschichte der Mathematik. II: Von 1700 bis zur
Mitte des 19. Jahrhunderts. (Sammlung Göschen.) Berlin, de
Gruyter, 1923. 154 pp.

WIJDENES (P.). Middel-algebra. Verschillende onderwerpen uit de
lagere algebra en inleiding tot de hoogere algebra. Groningen,
Noordhoff, 1921. 3 + 411 pp.

PART II. APPLIED MATHEMATICS

AERONAUTICAL RESEARCH COMMITTEE. Reports and Memoranda,
No. 602: Stability of airships, general case; the mathematical theory
and its application. London, H. M. Stationery Office, 1923.

ALLIATTA (G.). Missverständnisse. Zu den Grundlagen der Einsteinschen
Relativitätstheorie. Zu De Sitters Einwand zu Impulsprinzip. Zum
Dopplereffekt. Leipzig, Hillmann, 1923.

APPELL (P.). Traité de mécanique rationnelle. Tome 2. 4e édition.
Paris, Gauthier-Villars, 1923.

ARRHÉNIUS (S.). Conférences sur quelques problèmes actuels de la
chimie physique et cosmique. Paris, Gauthier-Villars, 1923. 120 pp.

BARKHAUSEN (—.). Elektronen-Röhren. Leipzig, Hirzel, 1923. 6 + 124 pp.

BECQUEREL (J.). Gravitation Einsteinienne. Champ de gravitation d'une
sphère matérielle et signification physique de la formule de Schwarz-
schild. Paris, Hermann, 1923. 32 pp.

BOUASSE (H.) et CARRIÈRE (Z.). Interférences. Paris, C. Delagrave, 1923. 31 + 462 pp.

CARRIÈRE (Z.). See BOUASSE (H.).

CORMAC (P.). A treatise on engine balance. London, Chapman and Hall, 1923. 11 + 151 pp.

ERGEBNISSE der exakten Naturwissenschaften. Herausgegeben von der Schriftleitung der *Naturwissenschaften*. Band I. Berlin, Springer, 1923. 4 + 403 pp.

FABRY (C.). Les applications des interférences lumineuses. Paris, Editions *Revue d'Optique*, 1923. 160 pp.

FAJANS (K.). Radioactivity and the latest developments in the study of the chemical elements. Translated from the fourth German edition by T. S. Wheeler and W. G. King. London, Methuen, 1923.

FISHER (A.). An elementary treatise on frequency curves and their application in the analysis of death curves and life tables. New York, Macmillan, 1922. 16 + 244 pp.　　　　　　　　　　　　　$4.00

FÖPPL (A.). Grundzüge der Festigkeitslehre. Leipzig, Teubner, 1923.

FOURNIER (F. E.). Carènes de formes nuisibles ou favorables à leurs grands vitesses; et résistances de l'eau à leur translation. Paris, Gauthier-Villars, 1923. 27 pp.

GLEICHEN (A.). Die Theorie der modernen optischen Instrumente. 2te, neubearbeitete und vermehrte Auflage. Stuttgart, Enke, 1923.

GOODWIN (G.) and others. The mechanical properties of fluids in theory and practice. An account of recent engineering research. London, Blackie, 1923. 16 + 376 pp.

GOTTSCHALK (O.). Elementos del cálcolo mecánico de sistemas elásticos. Buenos Aires, Tomas Palumbo, 1923. 27 pp.

GREGORY (R.). The vault of heaven; an introduction to modern astronomy. London, Methuen, 1923. 7 + 202 pp.

GRUNER (P.). Elemente der Relativitätstheorie. Bern, 1923.

GUNTHER (R. T.). Early science in Oxford. Parts 2, 3, 4: Astronomy, physics, surveying. Oxford, University Press, 1923.

HAGUE, (B.). Alternating-current-bridge methods for the measurement of inductance, capacitance, and effective resistance at low and telephonic frequencies; a theoretical and practical handbook for the use of advanced students. London, Pitman, 1923. 13 + 302 pp.

HAWKINS (C. C.). The dynamo: its theory, design and manufacture. Volume 2. 6th edition, revised throughout and largely rewritten. London, Pitman, 1923. 16 + 322 pp.

HITCHCOCK (F. L.) and ROBINSON (C. S.). Differential equations in applied chemistry. New York, Wiley, 1923. 6 + 110 pp.　　$1.50

HUDSON (C. W.) and SQUIRE (E. J.). Elements of graphic statics. London, McGraw-Hill, 1923. 8 + 91 pp.

IBBETSON (W. S.). See WALKER (C. A.).

KING (W. G.). See FAJANS (K.).

KIRCHBERGER (P.). Atom- und Quantentheorie. I: Atomtheorie. II: Quantentheorie. (Mathematisch - Physikalische Bibilothek, Band 44 und Band 45). Leipzig, Teubner, 1923.

LAMB (H.). Dynamics. 2d edition. Cambridge, University Press, 1923. 11 + 351 pp.

LANGEVIN (P.). La physique depuis 20 ans. Paris, Doin, 1923. 16mo. 450 pp.

LECORNU (L.). See WORMS DE ROMILLY (P.).

LEUTWILER (O. A.). Problems in machine design. London, McGraw-Hill, 1923. 7 + 133 pp.

LUDEWIG (P.). Die physikalischen Grundlagen des Betriebes von Röntgenröhren mit dem Induktorium. Berlin und Wien, Urban und Schwarzenberg, 1923. 7 + 134 pp.

McEWEN (B. C.). The properties of matter. London, Longmans, 1923. 6 + 316 pp.

MAINKA (C.). See PREY (A.).

MARGOLIS (L.). See SHADE (S.).

MITCHELL (S. A.). Eclipses of the sun. New York, Columbia University Press, 1923. $3.85

PREY (A.), MAINKA (C.) und TAMS (E.). Einführung in die Geophysik. Berlin, Springer, 1923. 8 + 340 pp.

REY (A.). La théorie de la physique chez les physiciens contemporains. 2e edition. Paris, Alcan, 1923. 9 + 346 pp.

ROBINSON (C. S.). See HITCHCOCK (F. L.).

ROSS (J. F. S.). An introduction to the principles of mechanics. London, Jonathan Cape, 1923. 10 + 400 pp.

SHADE (S.) and MARGOLIS (L.). Mathematics for technical and vocational students. London, Chapman and Hall, 1923. 491 pp.

SOUTHERNS (L.). An outline of relativity. London, Epworth Press, 1923. 47 pp.

SQUIRE (E. J.). See HUDSON (C. W.).

STEINMAN (D. B.). A practical treatise on suspension bridges; their design, construction and erection. New York, Wiley, 1923. 8 + 204 pp.

TAMS (E.). See PREY (A.).

VOGTHERR (K.). Wohin führt die Relativitätstheorie? Kritische Betrachtungen vom physikalischen und erkenntnistheoretischen Standpunkt aus. Leipzig, Hillmann, 1923.

WALKER (C. A.) and IBBETSON (W. S.). Tables and units for engineering students. London, Spon, 1923. 40 pp.

WHEELER (T. S.). See FAJANS (K.).

WORMS DE ROMILLY (P.). Quelques réflexions sur la relativité avec une préface de M. Lecornu. Paris, Hermann, 1923. 59 pp.