

## NEW PUBLICATIONS

## PART I. PURE MATHEMATICS

- ANDERSON (W. E.). A first course in college mathematics. New York, Harper, 1933. 10+326 pp.+92 pp.
- BEETLE (R. D.). McGraw-Hill five-place logarithmic and trigonometric tables. New York, McGraw-Hill, 1933. 8+132 pp.
- BERNSTEIN (V.). Leçons sur les progrès récents de la théorie des séries de Dirichlet. Avec une préface de J. Hadamard. (Collection Borel.) Paris, Gauthier-Villars, 1933. 16+320 pp.
- BOEHM (C.). See EULER (L.).
- BOHDE (H.). Mathematisch-technische Tafeln. 7te, vermehrte Auflage. Berlin, Springer, 1933. 105 pp.
- BOLL (M.). See CARNAP (R.).
- BRADLEY (A. D.). The geometry of repeating design and geometry of design for high schools. New York, Teachers College, 1933. 6+132 pp.
- BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Mathematical tables. Volume 3: Minimum decompositions into fifth powers. Prepared by L. E. Dickson. (Published under the supervision of the British Association Committee for the Calculation of Mathematical Tables.) London, British Association, 1933. 6+368 pp.
- BROWN (O. E.). See MORRIS (M.).
- CARNAP (R.). L'ancienne et la nouvelle logique. Traduction du Général E. Vouillemin, introduction de Marcel Boll. (Actualités Scientifiques et Industrielles, No. 76.) Paris, Hermann, 1933. 36 pp.
- CARTAN (E.). Sur la structure des groupes de transformations finis et continus. Paris, Vuibert, 1933.
- DATTA (B.). The science of the Sulba. A study in early Hindu geometry. (Readership lectures for the year 1931.) Calcutta, University of Calcutta, 1932. 16+240 pp.
- DAVIS (H. T.), edited by. Tables of the higher mathematical functions. Volume 1. (Published as a contribution of the Waterman Institute for Scientific Research, Indiana University.) Bloomington, Ind., Principia Press, 1933. 377+13 pp.
- DICKSON (L. E.). See BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
- DINGLER (H.). Die Grundlagen der Geometrie. Ihre Bedeutung für Philosophie, Mathematik, Physik und Technik. Stuttgart, Enke, 1933. 84 pp.
- DURELL (C. V.) and ROBSON (A.). Elementary calculus. Volume 1. London, G. Bell, 1933. 8+240 pp.
- EULER (L.). Opera omnia. Series I: Opera mathematica. Volumen XVI, sectio I: Commentationes analyticae ad theoriam serierum infinitarum pertinentes. Edidit C. Boehm. Leipzig, Teubner, 1933. 10+355 pp.
- EWING (C. A.). Plane trigonometry. New York, McGraw-Hill, 1933. 12+166 pp.

- FAVARD (J.). Leçons sur les fonctions presque-périodiques. Préface de G. Julia. (Cahiers Scientifiques.) Paris, Gauthier-Villars, 1933. 8+183 pp.
- GERARD (A. E.). See THOMPSON (S. P.).
- GIBSON (G. A.) and PINKERTON (P.). Elements of analytical geometry. Chapters I-VI: The straight line. London, Macmillan, 1933. 8+105+6 pp.
- GLIEBE (J. J.). The mathematical atom: its involution and evolution exemplified in the trisection of the angle; a problem in plane geometry. 3d edition, revised. San Francisco, St. Boniface Franciscan Friary, and London, Technical Records, 1933. 3+87 pp.
- GODEAUX (L.). Questions non résolus de géométrie algébrique. (Actualités Scientifiques et Industrielles, No. 77: Exposés sur l'analyse mathématique publiés sous la direction de J. Hadamard, I.) Paris, Hermann, 1933. 24 pp.
- GÜNTHER (G.). Grundzüge einer neuen Theorie des Denkens in Hegels Logik. Leipzig, Meiner, 1933. 226 pp.
- HADAMARD (J.). See BERNSTEIN (V.), GODEAUX (L.).
- HAHN (H.). Logik, Mathematik und Naturerkennen. Wien und Leipzig, Carl Gerold's Sohn, 1933. 33 pp.
- HART (W. L.). Plane trigonometry. New York, Heath, 1933. 6+186+16 pp.; tables, 4+124 pp.
- HEIDEL (W. A.). The heroic age of science. The conception, ideals and methods of science among the ancient Greeks. Baltimore, Williams and Wilkins, 1933. 203 pp.
- INGE (D.). God and the astronomers. Containing the Warburton Lectures, 1931-1933. London and New York, Longmans, 1933. 13+308 pp.
- JULIA (G.). See FAVARD (J.).
- KOWALEWSKI (G.). Lehrbuch der höheren Mathematik. Band 3: Fortsetzung der Differential- und Integralrechnung. Differentialgleichungen. Differentialgeometrie. Funktionen einer komplexen Veränderlichen. Probleme der Variationsrechnung. Berlin, de Gruyter, 1933. 2+252 pp.
- LIETZMANN (W.). Kegelschnittlehre. Leipzig, Teubner, 1933. 46 pp.
- LINDOW (M.). Gewöhnliche Differentialgleichungen. 2te Auflage. Leipzig, Teubner, 1933. 121 pp.
- Integralrechnung. 4te Auflage. Leipzig, Teubner, 1933. 102 pp.
- MACE (C. A.). The principles of logic. An introductory survey. London and New York, Longmans, 1933. 13+388 pp.
- MORRIS (M.) and BROWN (O. E.). Differential equations. New York, Prentice-Hall, 1933. 14+410 pp.
- PINKERTON (P.). See GIBSON (G. A.).
- PRICE (E. A.). Logical sequence in plane geometry. Rapid revision by means of ideograms. Cambridge, University Press, 1933. 12 pp.
- RAMACHANDRAN (G. V.). See RANGANATHAN (V.).
- RANGANATHAN (V.) and RAMACHANDRAN (G. V.). Intermediate trigonometry. Trichinopoly, Wednesday Review Press, 1933. 225 pp.
- ROBSON (A.). See DURELL (C. V.).
- ROSENBAACH (J. B.) and WHITMAN (E. A.). College algebra. Boston, Ginn, 1933. 12+394 pp.

- SAKS (S.). *Théorie de l'intégrale.* (Monografie Matematyczne, II.) Warsaw, Mathematical Seminar of the University of Warsaw, 1933. 7+290 pp.
- SILBERSTEIN (L.). *Causality a law of nature or a maxim of the naturalist.* London, Macmillan, 1933. 159 pp.
- THOMPSON (S. P.). *Le calcul intégral et différentiel à la portée de tout le monde.* Traduit de l'anglais par A. E. Gerard. 3e édition, revue et corrigée. Paris, Dunod, 1933. 8+290 pp.
- VÉRONNET (A.). *Le calcul vectoriel. Cours d'algèbre de mathématiques spéciales et de mathématiques générales.* Préface par H. Villat. Paris, Gauthier-Villars, 1933. 18+252 pp.
- VILLAT (H.). See VÉRONNET (A.).
- VOUILLEMIN (E.). See CARNAP (R.).
- WAREHAM (A. L.). *The foundations of the universe.* London, C. W. Daniel, 1933. 43 pp.
- WHITMAN (E. A.). See ROSENBACH (J. B.).
- WITTING (A.). *Integralrechnung.* (Sammlung Göschen.) Berlin, de Gruyter, 1933. 175 pp.

## PART II. APPLIED MATHEMATICS

- ALTER (D.). *Introduction to practical astronomy.* New York, Crowell, 1933. 8+80 pp.
- APPELL (P.). *Traité de mécanique rationnelle.* 2e édition. Tome 5. Revue par R. Thiry. Paris, Gauthier-Villars, 1933. 198 pp.
- ASTBURY (W. T.). *Fundamentals of fibre structure.* London, Oxford University Press, 1933. 10+187 pp.
- BLEICH (F.). *Stahlhochbauten, ihre Theorie, Berechnung und bauliche Gestaltung.* Band 2. Berlin, Springer, 1933. 5+376 pp.
- BORCHARDT (W. G.). *First course in mechanics.* London, Rivingtons, 1933. 238 pp.
- *A second course in mechanics.* London, Rivingtons, 1933.
- BRÖTZ (O.). See SCHARRER (G.).
- BROWN (E. W.) and SHOOK (C. A.). *Planetary theory.* New York, Macmillan, and Cambridge, University Press, 1933. 12+302 pp.
- CALDERWOOD (J. P.). See MOYER (J. A.).
- CROWDER (W. F.). See DAVIES (G. R.).
- DAVIES (G. R.) and CROWDER (W. F.). *Methods of statistical analysis in the social sciences.* New York, Wiley, and London, Chapman and Hall, 1933. 11+355 pp.
- DENNISON (B. C.). See KARAPETOFF (V.).
- EDWARDS (H. W.). *Analytic and vector mechanics.* (International Series in Physics.) New York and London, McGraw-Hill, 1933. 10+428 pp.
- EVANS (R. D.). See WAGNER (C. F.).
- GEIGER (H.) und SCHEEL (K.), herausgegeben von. *Handbuch der Physik.* 2te Auflage. Band 24, Teil 1: Quantentheorie. Redigiert von A. Smekal. Berlin, Springer, 1933. 9+853 pp.

- GEMANT (A.). Liquid dielectrics. English translation by V. Karapetoff. (National Research Council Committee on Electrical Insulation, Monograph No. 2.) New York, Wiley, and London, Chapman and Hall, 1933. 9+185 pp.
- GERLACH (WALTHER) und GERLACH (WERNER). Die chemische Emissions-Spektralanalyse. Teil 2. Leipzig, Voss, 1933. 191 pp.
- GERLACH (WERNER). See GERLACH (WALTHER).
- GIBSON (C. R.). Electrical conceptions of today. A lucid explanation of many of the latest theories concerning atoms, electrons and other matters relating to electricity. London, Seeley, Service and Company, 1933. 284 pp.
- GOLDING (E. W.). Electrical measurements and measuring instruments. (Engineering Degree Series.) London, Pitman, 1933. 804 pp.
- GRIMSEHL (E.). A textbook of physics. Edited by R. Tomaschek. Authorized translation from the 7th German edition by L. A. Woodward. Volume 3: Electricity and magnetism. London and Glasgow, Blackie, 1933. 14+685 pp.
- GRODZINKSI (P.) und POLSTER (H.). Getriebelehre. Band 1: Geometrische Grundlagen. Band 2: Angewandte Getriebelehre. (Sammlung Göschen.) Berlin, de Gruyter, 1933. 136+142 pp.
- GUERNER (J.). See SCHWAIGER (A.).
- GUGGENHEIM (E. A.). Modern thermodynamics by the methods of Willard Gibbs. London, Methuen, 1933. 16+206 pp.
- GUSTAFSON (T.). Über den Magnuseffekt nach der asymptotischen hydrodynamischen Theorie. (Dissertation, Lund.) Lund, Håkan Ohlssons Buchdruckerei, 1933.
- HARBURGER (W.). Strahlender Raum. München, Duncker und Humboldt, 1933. 95 pp.
- HOHENEMSER (K.) und PRAGER (W.). Dynamik der Stabwerke. Eine Schwingungslehre für Bauingenieure. Berlin, Springer, 1933. 6+367 pp.
- HOWARD (H. B.). The stresses in aeroplane structures. London, Pitman, 1933. 274 pp.
- INFELD (L.). Nowe drogi nauki: kwanty i materja. (Z Dziedziny Nauki i Techniki, Tom 2.) Warsaw, Mathesis Polskiej, 1933. 10+284 pp.
- KARAPETOFF (V.). Experimental electrical engineering and manual for electrical testing. 4th edition, completely revised and reset. Volume 1. Revised by B. C. Dennison. New York, Wiley, and London, Chapman and Hall, 1933. 28+781 pp.
- See GEMANT (A.).
- KING (H. W.) and WISLER (C. O.). Hydraulics. 3d edition, revised. New York, Wiley, and London, Chapman and Hall, 1933. 12+292 pp.
- KLEIN (P. E.). Transformatoren und Drosseln. Berlin-Tempelhof, J. Schneider, 1933. 83 pp.
- KUCZYNSKI (R. R.). Fertility and reproduction. Methods of measuring the balance of births and deaths. New York, Falcon Press, 1932. 3+94 pp.
- LENSE (J.). Reihenentwicklung in der mathematischen Physik. Berlin, de Gruyter, 1933. 178 pp.
- LERTES (P.). Elektrische Musik. Leipzig, Steinkopff, 1933. 11+207 pp.

- LOWE (E. A.). Direct and alternating currents. Theory and machinery. New York and London, McGraw-Hill, 1933. 13+656 pp.
- MASSEY (H. S. W.). See MOTT (N. F.).
- MOELWYN-HUGHES (E. A.). The kinetics of reactions in solution. Oxford, Clarendon Press, and London, Oxford University Press, 1933. 7+313 pp.
- MORECROFT (J. H.). Electron tubes and their application. New York, Wiley, and London, Chapman and Hall, 1933. 13+458 pp.
- MOTT (N. F.) and MASSEY (H. S. W.). The theory of atomic collisions. (International Series of Monographs on Physics.) Oxford, Clarendon Press, and New York, Oxford University Press, 1933. 15+283 pp.
- MOYER (J. A.), CALDERWOOD (J. P.), and POTTER (A. A.). Elements of engineering thermodynamics. 5th edition, rewritten and reset. New York, Wiley, and London, Chapman and Hall, 1933. 14+192 pp.
- NEMÉNYI (P.). Wasserbauliche Strömungslehre. Leipzig, Barth, 1933. 275 pp.
- PLASKETT (H. H.). The place of observation in astronomy. New York, Oxford University Press, 1933. 32 pp.
- POLSTER (H.). See GRODZINKSI (P.).
- PONCIN (H.). Recherches sur le mouvement d'un fluide pesant dans un plan vertical. (Publications Scientifiques du Ministère de l'Air, No. 16.) Paris, Gauthier-Villars, 1933. 108 pp.
- Sur les cavitations de forme permanente. Préface de H. Villat. (Publications Scientifiques du Ministère de l'Air, No. 18.) Paris, Gauthier-Villars, 1933. 126 pp.
- POTTER (A. A.). See MOYER (J. A.).
- PRAGER (W.). See HOHENEMSER (K.).
- QUITTNER-BERTOLASI (E.). Das Verhältnis von Trend und Konjunkturzyklen als mathematisch-ökonomisches Problem. (Veröffentlichung der Frankfurter Gesellschaft für Konjunkturforschung.) Leipzig, Hans Buske Verlag, 1933. 57 pp.
- RAPSON (E. T. A.). Electrical transmission and distribution. London, Oxford University Press, 1933. 179 pp.
- RESTA (O.). La derivazione anomola nel tiro delle artiglierie. Bologna, Azzoguidi, 1933.
- ROEVER (W. H.). The Mongean method of descriptive geometry according to the procedure of Gino Loria. New York, Macmillan, 1933. 14+151 pp.
- RUTHERFORD (E.). The artificial transmutation of the elements. Being the thirty-fifth Robert Boyle Lecture, delivered before the Oxford University Junior Scientific Club on June 2, 1933. London, Oxford University Press, 1933. 12 pp.
- SALIGER (R.). Der Eisenbeton, seine Berechnung und Gestaltung. 6te ergänzte Auflage. Leipzig, Verlag Kröner, 1933. 661 pp.
- SCHARRER (G.) und BRÖTZ (O.). Gebäudeschwingungen. (Forschungsheft 359.) Berlin, V. D. I. Verlag, 1933. 24 pp.
- SCHEEL (K.). See GEIGER (H.).
- SCHÖLER (R.). Die Statik und Festigkeitslehre einschliesslich der Theorie, Berechnungen und Konstruktionen des Eisenbetonbaues. Band 1. Leipzig, Verlag Voigt, 1933. 175 pp.

- SCHWAIGER (A.). Calcul pratique des lignes de transport d'énergie électrique: basse, moyenne, haute tension et lignes à longue distance. Traduction et adaptation d'après l'édition allemande par J. Guerner. Paris, Dunod, 1933. 12+142 pp.
- SHOOK (C. A.). See BROWN (E. W.).
- SMEKAL (A.). See GEIGER (H.).
- THIRY (R.). See APPELL (P.).
- TOMASCHEK (R.). See GRIMSEHL (E.).
- UNOLD (G.). Die praktische Berechnung der Stahlskelettrahmen. Berlin, Wilhelm Ernst, 1933. 9+75 pp.
- VILLAT (H.). See PONCIN (H.).
- WAGNER (C. F.) and EVANS (R. D.). Symmetrical components as applied to the analysis of unbalanced electrical circuits. New York and London, McGraw-Hill, 1933. 16+437 pp.
- WARBURG (E.). Lehrbuch der Experimentalphysik für Studierende. 23te und 24te verbesserte Auflage. Dresden und Leipzig, Steinkopf, 1933. 484 pp.
- WISLER (C. O.). See KING (H. W.).
- WOLF (R.). Geschichte der Astronomie. (Reprint of the 1877 edition.) München, Oldenbourg, und Leipzig, Koehlers Antiquarium, 1933. 16+815 pp.
- WOODWARD (L. A.). See GRIMSEHL (E.).
- WULF (T.). Die Faden-Elektrometer. Berlin, Dümmlers Verlag, 1933. 147 pp.