

NEW PUBLICATIONS

PART I. PURE MATHEMATICS

- VON ALLESCH (J. G.). Zur nichteuklidischen Struktur des phänomenalen Raumes. Jena, Fischer, 1930.
- ARCHIBALD (R. C.). See KLEIN (F.).
- BACHMANN (P.). Grundlehren der neueren Zahlentheorie. 3te, neu durchgesehene Auflage mit einem Gedächtnisworte herausgegeben von R. Haussner. (Göschens Lehrbücherei.) Berlin, de Gruyter, 1931. 16+252 pp.
- BEMAN (W. W.). See KLEIN (F.).
- BERICHT über die erste Tagung für Erkenntnislehre der exakten Wissenschaften in Prag 1929. Leipzig, Meiner, 1930. 250 pp.
- BIEBERBACH (L.). Lehrbuch der Funktionentheorie. 2te verbesserte und vermehrte Auflage. Band 2. Leipzig, Teubner, 1931. 370 pp.
- BROWN (F. G. W.). Plane trigonometry. Being Part 2 of Progressive trigonometry. London, Macmillan, 1930. 12+264 pp.
- BÜRKLEN (O. T.). Mathematische Formelsammlung. Vollständig umgearbeitete Neuauflage von F. Ringleb. 2te, verbesserte Auflage. (Sammlung Göschens.) Berlin, de Gruyter, 1931. 255 pp.
- CARMICHAEL (R. D.) and SMITH (E. R.). Mathematical tables and formulas. Boston, Ginn, 1931. 8+269 pp.
- COMRIE (L. J.). See MILNE-THOMSON (L. M.).
- CRANTZ (P.). Analytische Geometrie der Ebene zum Selbstunterricht. 5te Auflage durchgesehen von M. Hauptmann. Leipzig, Teubner, 1930. 97 pp.
- DEHN (E.). Algebraic charts. New York, Columbia Press, 1930. 14 pp.
- DUBS (H. H.). Rational induction. An analysis of the method of science and philosophy. Chicago, University of Chicago Press, and London, Cambridge University Press, 1930. 15+510 pp.
- EDGE (W. L.). The theory of ruled surfaces. Cambridge, University Press, 1931. 10+324 pp.
- ENCYKLOPÄDIE DER MATHEMATISCHEN WISSENSCHAFTEN. Band III. Geometrie. Redigiert von W. F. Meyer und H. Mohrmann. 1ter Teil, 2te Hälfte. Leipzig, Teubner, 1914-1931. Pp 12+771-1596+264.
- FUETER (R.). See STEINER (J.).
- GIBSON (G. A.). Advanced calculus. London, Macmillan, 1931. 17+510 pp.
- GONSETH (F.). See STEINER (J.).
- GUILLEN (J. C.). Nuevo método de discusión de los sistemas de ecuaciones lineales. Madrid, Editorial Voluntad, 1930. 32 pp.
- HAUPTMANN (M.). See CRANTZ (P.).
- HAUSSNER (R.). See BACHMANN (P.).
- HEATH (T. L.). A manual of Greek mathematics. Oxford, Clarendon Press, 1931. 16+552 pp.
- HOWE (G.). Mathematics for the practical man. Explaining simply and quickly all the elements of algebra, geometry, trigonometry, logarithms, coordinate geometry, calculus. London, Crosby Lockwood, 1931. 5+143 pp.

- HUNTINGTON (E. V.). Four place tables. London, Allen and Unwin, 1931. 32 pp.
- JOHNSON (F. W.). Non-interpolating logarithms, co-logarithms and anti-logarithms. San Francisco, Simplified Series Publishing Company, 1930.
- KLEIN (F.). Famous problems of elementary geometry. Authorized translation by W. W. Beman and D. E. Smith. 2d edition revised, and enlarged with notes by R. C. Archibald. New York, Stechert, 1930. 12+92 pp.
- KLETTLER (B.). Magische Zahlenquadrate. Mechanische gemeinverständliche Lösungen für alle Arten von Quadraten. Wien und Leipzig, Braumüller, 1930. 7+55 pp.
- KOWALEWSKI (G.). Vorlesungen über allgemeine natürliche Geometrie und Liesche Transformationsgruppen. Berlin, de Gruyter, 1931.
- LEIB (D.). Applications du calcul différentiel et intégral. Traduit de l'anglais et adapté par A. Sallin. Paris, Blanchard, 1930.
- LORIA (G.). Il passato e il presente delle principali teorie geometriche. Storia e bibliografia. 4a edizione totalmente rifatta. Padova, Cedam, 1931. 24+467 pp.
- MACAULAY (W. H.). Solid geometry. Cambridge, University Press, 1930. 12+303 pp.
- MEYER (W. F.). See ENCYKLOPÄDIE.
- MILLER (I.). An introduction to mathematics. New York, F. S. Crofts, 1930. 13+297 pp.
- MILNE-THOMSON (L. M.) and COMRIE (L. J.). Standard four-figure mathematical tables. Edition A with positive characteristics in the logarithms. Edition B with negative characteristics in the logarithms. New York and London, Macmillan, 1931. 16+246+16+246 pp.
- MOHRMANN (H.). See ENCYKLOPÄDIE.
- MOLENAAR (P. G.). Eindige substitutie-groepen. Toepassing in de quantatheorie. (Dissertation.) Groningen, Noordhoff, 1930. 10+84 pp.
- DE PINEDA Y GUTIÉRREZ (P.). Estudio de la colineación compleja en el plano y representación real de la misma. Madrid, Nuevas Graficas, 1930. 67 pp.
- PIPER (R. F.) and WARD (P. W.). The fields and methods of knowledge. A textbook in orientation and logic. New York and London, Knopf, 1929. 25+398+40 pp.
- RACLIS (R. N.). Solution principale de l'équation aux différences finies de Poincaré. (Dissertation, Paris.) Paris, Presses Universitaires de France, 1929. 119 pp.
- RAMOS (T. A.). Leçons sur le calcul vectoriel. Paris, Blanchard, 1930. 4+120 pp.
- RINGLEB (F.). See BÜRKLEN (O. T.).
- SALLIN (A.). See LEIB (D.).
- SCHALLER (J. G.). Die Unmöglichkeit der Gleichung $a^n + b^n = c^n$ in rationalen Zahlen bei $n > 2$. Neue, umgearbeitete Ausgabe. Wismar, J. G. Schaller, 1927/30. 20 pp.
- SCHILLING (G.). Projektive und nichteuklidische Geometrie. Band 1. Projektive Geometrie in analytischer Behandlung nebst einem Einblick in die Grundlagen der Geometrie. Band 2: Nichteuklidische Geometrie auf der Grundlage der projektiven Geometrie. Leipzig, Teubner, 1931. 12+212+12+216 pp.

- SJÖSTRAND (O.). Sur le problème de M. Goursat pour les équations aux dérivées partielles du second ordre ou de l'ordre supérieur. (Dissertation.) Göteborg, Elander, 1929. 75 pp.
- SMALL (L. L.). College algebra. New York, McGraw-Hill, 1931. 16+450 pp.
- SMITH (D. E.). See KLEIN (F.).
- SMITH (E. R.). See CARMICHAEL (R. D.).
- STEINER (J.). Allgemeine Theorie über das Berühren und Schneiden der Kreise und der Kugeln. Herausgegeben von R. Fueter und F. Gonseth. Zürich, Füssli, 1931. 18+345 pp.
- VERA (F.). Historia de la matemática en España. Volume I. Madrid, V Suarez, 1929. 306 pp.
- WARD (P. W.). See PIPER (R. F.).

PART II. APPLIED MATHEMATICS

- ANDERLE (F.). Radio-Kurzwellen und ihre Eigenschaften. Wien und Leipzig, Deuticke, 1931. 122 pp.
- ANDERSON (J. S.), editor. Photoelectric cells and their applications. A discussion at a joint meeting of the Physical and Optical Societies (of London). June 4 and 5, 1930. London, published by the Physical and Optical Societies, 1930.
- APPLEYARD (R.). A tribute to Michael Faraday. London, Constable, 1931. 13+204 pp.
- ARRHENIUS (S.). Die Sternenwelt. (Erde und Weltall, Teil 2.) Übersetzt von Dr. Finkelstein. Herausgegeben unter Mitarbeit von Knut Lundmark. Leipzig, Akademische Verlagsgesellschaft, 1931. 340 pp.
- AUERBACH (F.) und HORT (W.). Handbuch der physikalischen und technischen Mechanik. Band 4, 2te Hälfte. Leipzig, Barth, 1931. 14+614 pp.
- BALDET (F.). La constitution des comètes. Paris, Hermann, 1930. 23 pp.
- BANGAY (R. D.). The elementary principles of wireless telegraphy and telephony. 3d edition, revised by O. F. Brown. London, Iliffe and Sons, 1930. 12+268 pp.
- BEGHIN (H.) et JULIA (G.). Exercices de mécanique. Tome 1, fascicule 1. Paris, Gauthier-Villars, 1931. 144 pp.
- BELLASIS (E. S.). Hydraulics with working tables. 5th edition. London, Spon, 1930. 374 pp.
- River and canal engineering. The characteristics of open flowing streams and the principles and methods to be followed in dealing with them. 3d edition. London, Spon, 1931. 374 pp.
- BOLL (M.). See DARROW (K. K.).
- BOSSHARDT (R.). Mesure des distances et méthode des coordonnées polaires avec étude spéciale du tachéomètre auto-réducteur Bosshardt-Zeiss. Traduit par Maurice Delessert. Genève, Georg, 1930. 172 pp.
- BOYD (J. E.). Mechanics. A textbook for engineers. 2d edition. New York and London, McGraw-Hill, 1930. 384 pp.
- BROWN (O. F.). See BANGAY (R. D.).
- CHADWICK (J.). Radioactivity and radioactive substances. 3d edition. London, Pitman, 1931. 12+116 pp.

- CODD (L. W.). See HAAS (A.).
- DARROW (K. K.). *La synthèse des ondes et des corpuscules*. Exposé élémentaire publié avec introduction et notes par Marcel Boll. Paris, Hermann, 1931. 54 pp.
- DELESSERT (M.). See BOSSHARDT (R.).
- DELL'AGNOLA (C. A.). *Matematica finanziaria*. Venezia, Scarabellin, 1930. 230 pp.
- DREYFUS (R.). *La téléphonie*. Paris, Armand Colin, 1930.
- EASON (A. B.). *Flow and measurement of air and gases*. 2d edition, thoroughly revised. London, Griffin, 1930. 12+254 pp.
- EDDINGTON (A. S.). *The rotation of the galaxy*. Being the Halley Lecture delivered on 30 May 1930. Oxford, Clarendon Press, 1930. 30 pp.
- FABRY (C.). *La lumière monochromatique*. Sa production et son emploi en optique pratique. 2e édition, entièrement refondue. Paris, Editions de la Revue d'Optique Théorique et Instrumentale, 1930. 40 pp.
- FAVRE (A.). *Les origines du système métrique*. Paris, Presses Universitaires de France, 1931. 242 pp.
- FINDLAY (A.). *Practical physical chemistry*. 5th edition, revised and enlarged. London and New York, Longmans, 1931. 12+312 pp.
- FINKELSTEIN (—). See ARRHENIUS (S.).
- FÖPPL (O.). *Grundzüge der technischen Schwingungslehre*. 2te, verbesserte und ergänzte Auflage. Berlin, Springer, 1931. 6+212 pp.
- FRAENCKEL (A.). *Theorie der Wechselströme*. 3te erweiterte und verbesserte Auflage. Berlin, Springer, 1930. 6+260 pp.
- FRÉCHET (M.) et ROMANN (R.). *Représentation des lois empiriques par des formules approchées, à l'usage des chimistes, des physiciens, des ingénieurs et des statisticiens*. Paris, Eyrolles, 1930. 8+302 pp.
- FREEMAN (H.). *An elementary treatise on actuarial mathematics*. Published for the Institute of Actuaries. Cambridge, University Press, 1931. 13+399 pp.
- FUETER (R.). *Das mathematische Werkzeug des Chemikers, Biologen, Statistikers und Soziologen*. 2te verbesserte und vermehrte Auflage. Zürich, Füssli, 1930. 303 pp.
- GAST (P.). *Vorlesungen über Photogrammetrie*. Leipzig, Barth, 1930. 8+328 pp.
- GOGGIN (W. J.) and TONER (J. V.). *Accounting, principles and procedure*. New York, Houghton Mifflin, 1930. 8+476 pp.
- GUNTHER (R. T.). *Early science in Oxford*. Volume 8: The Cutler Lectures of Robert Hooke. Oxford, R. T. Gunther, Magdalen College, 1931. 7+12+391 pp.
- HAAS (A.). *The new physics*. 3d English edition. New York, Dutton, 1930. 172 pp.
- *Quantum chemistry*. A short introduction in four non-mathematical lectures. Translated by L. W. Codd. London, Constable, 1930. 9+77 pp.
- HAMILTON (W. R.). *The mathematical papers of Sir William Rowan Hamilton*. Volume 1: Geometrical optics. Cambridge, University Press, 1931. 28+534 pp.

- HERZ (W.) und LORENZ (L.). Leitfaden der theoretischen Chemie. Stuttgart, Enke, 1930. 309 pp.
- HOOKE (R.). See GUNTHER (R. T.).
- HORT (W.). See AUERBACH (F.).
- JAEGER (F. M.). Spatial arrangements of atomic systems and optical activity. Methods, results and problems of precise measurements at high temperatures. The constitution and structure of ultramarines. New York, McGraw-Hill, 1930. 7+450 pp.
- JAMES (R. W.). X-ray crystallography. London, Methuen, 1931. 7+88 pp.
- JULIA (G.). See BEGHIN (H.).
- KIEFER (P. J.) and STUART (M. C.). Principles of engineering thermodynamics. New York, Wiley, 1930. 14+545 pp.
- LORENZ (L.). See HERZ (W.).
- LUNDMARK (K.). See ARRHENIUS (S.).
- MALTI (M. G.). Electric circuit analysis. New York, Wiley, 1930. 7+389 pp.
- MANCINI (N.). Elettricità e magnetismo. Rotazione elettro-magnetica gravitazionale. Bologna, Licinio Cappelli, 1931. 7+506 pp.
- OLIVIER (C. P.). Comets. London, Baillière, Tindall and Cox, 1930. 246 pp.
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- REYNER (J. H.). Modern radio communication. A manual of modern theory and practice. London, Pitman, 1931. 11+259 pp.
- ROMANN (R.). See FRÉCHET (M.).
- ROSSELAND (S.). Astrophysik auf atomtheoretische Grundlagen. (Struktur der Materie, Band 11.) Berlin, Springer, 1931. 252 pp.
- SALMON (E. H.). Materials and structures. A textbook for engineering students. Volume 1: The elasticity and strength of materials. London and New York, Longmans, 1931. 10+638 pp.
- STUART (M. C.). See KIEFER (P. J.).
- TAYLOR (H. S.), editor. A treatise on physical chemistry. A cooperative effort by a group of physical chemists. 2d edition. 2 volumes. New York, Van Nostrand, 1931. 15+852+12+865+48 pp.
- TIMOSHENKO (S.). Strength of materials. Part 1: Elementary theory and problems. Part 2: Advanced theory and problems. London, Macmillan, 1931. 12+368+11+335 pp.
- TONER (J. V.). See GOGGINS (W. J.).
- VIEWEGER (H.) und VIEWEGER (W.). Aufgaben und Lösungen aus der Gleich- und Wechselstromtechnik. 10te umgearbeitete Auflage. Berlin, Springer, 1931. 8+341 pp.
- VIEWEGER (W.). See VIEWEGER (H.).
- WARRAIN (F.). La matière. L'énergie. Paris, Alcan, 1930. 179 pp.
- WEICHART (F.). Die physikalischen Grundlagen der Rundfunktechnik. In 3 Teilen. Teil 1. Berlin, Verlag Weidmann, 1930. 8+130 pp.
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