

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

- APOLLONIUS OF PERGA. Treatise on conic sections; edited in modern notation with introduction including an essay on the earlier history of the subject by Sir T. L. Heath. Oxford, Clarendon Press, 1913. 8vo. 424 pp. Cloth. 20s.
- BOHANNAN (R. D.). Plane analytical geometry. Columbus, O., R. G. Adams, 1913. \$1.60
- CARRARA (B.). La s. scrittura i ss. padri e Galileo sopra il moto della terra, ossia il sistema copernicano e la s. scrittura al tempo di Galileo: monografia. Seconda edizione, migliorata ed accresciuta. Milano, G. Palma, di G. Daverio, 1914. 16mo. 170 pp. L. 1.50
- CAUER (D.). Neue Anwendungen der Pfeifferschen Methode zur Abschätzung zahlentheoretischer Funktionen. (Diss.) Göttingen, 1914.
- COBB (C. W.). Plane analytic geometry. Norwood, Mass., Norwood Press, 1913. \$1.00
- ECHOLS (W. H.). Evolutionary constructions of the imaginary power of a number and its expression as an exponential function. Charlottesville, 1913.
- EMMERICH (A.). Kubische Aufgaben aus der Stereometrie. Nebst Anleitungen zur Lösung, Determinationen und den Ergebnissen der Zahlenbeispiele. Weinheim, 1914. 8vo. 8 + 127 pp. M. 2.50
- FABARIUS (W.). L. Euler und das Problem Fermats. Cassel, 1914. 8vo. 12 pp. M. 1.20
- GANTER (H.) und RUDIO (F.). Die Elemente der analytischen Geometrie. II. Teil: Die analytische Geometrie des Raumes. 5. Auflage. Leipzig, Teubner, 1913. 8vo. Geb. M. 3.00
- GROOT (W. F. DE). De theorie der kwadratische vormen van oneindig vele veranderlijken en haar toepassing op de lineaire integraalvergelijkingen. Leiden, 1913. 8vo. 106 pp.
- HEATH (T. L.). See APOLLONIUS.
- HEILAND (F.). Eine Gruppe von Kurven 3^{ter} Ordnung. Progr. grossherzogl. Reformrealgymnasium, Apolda, 1914.
- KREUSER (P.). Ueber das Verhalten der Integrale homogener linearer Differentialgleichungen im Unendlichen. (Diss.) Tübingen, 1914.
- LABOUREUR (M.). Cours de calcul algébrique différentiel et intégral. Paris, 1913. Fr. 15.00
- LESSER (O.). Die Infinitesimalrechnung im Unterricht der Prima. Zweite verbesserte Auflage. Berlin, Salle, 1912. Geb. M. 2.20
- LINDWART (E.). Ueber eine Methode von Laguerre zur Bestimmung des Geschlechts einer ganzen Funktion. (Diss.) Göttingen, 1914.
- LOUP (W. M.). Een bijdrage tot de theorie der cyclische oppervlakken en congruenties. (Thesis.) Utrecht, van Boekhoven, 1914. 4to. 80 pp.

- MERZ (K.). Parallelfächen und Zentralfläche eines besonderen Ellipsoides und die Steinersche Fläche. Beispiele einer quadratischen Transformation. Chur, 1914. Gr. 8vo. 54 pp.
- MOZANS (H. J.). Woman in science. New York and London, Appleton, 1914. 8vo. 13+452 pp. \$2.50
- PAULHAN (F.). Esprits logiques et esprits faux. Seconde édition. Paris, Alcan, 1914. 8vo. 8+388 pp.
- PEIRCE (B. O.). A short table of integrals. Abridged edition. Boston, Ginn, 1914. 8vo. 32 pp. Paper. \$0.15
- PIERPONT (J.). Functions of a complex variable. Boston, Ginn, 1914. 8vo. 14+583 pp. Cloth. \$5.00
- POND (R. S.). Collineations in space of four dimensions. Lawrence, Kan., University of Kansas, 1913.
- RITTER (H.). Beweis des Fermatschen Satzes. Cassel, 1914. 8vo. 12 pp. M. 0.50
- ROBERT (E.). Composition des formes quadratiques de quatre et de huit variables indépendantes. Zürich, 1912. 8vo. 56 pp.
- RUDIO (F.). See GANTER (H.).
- SCHEMEHL (C.). Die Algebra und algebraische Analysis nebst einer elementaren Theorie der Determinanten und den Anfangsgründen der Differentialrechnung in den oberen Klassen von höheren Lehranstalten. 2te Auflage. Giessen, E. Roth, 1914. 316 pp.
- SPORER (B.). Ueber geradlinige Transversalen algebraischer Kurven. Wien (*Sitz. Akad.*), 1914. Gr. 8vo. 34 pp.
- WEBER (O.). Binormalenflächen mit einer zur Striktionslinie äquidistanten Asymptotenlinie in Beziehung zu Evoluten Ribaucourscher Kurven. (Diss.) Halle, 1914.
- WILENSKY (M.). Ueber Besselsche Funktionen. (Diss.) Bern, 1914.
- ZEUTHEN (H. G.). Lehrbuch der abzählenden Methoden der Geometrie. Leipzig, Teubner, 1914. 8vo. 12+394 pp. Geb. M. 17.00

II. ELEMENTARY MATHEMATICS.

- BAKER (W. M.) and BOURNE (A. A.). Examples in arithmetic extracted from the Public School Arithmetic. London, Bell, 1914. 8vo. 12+217+52 pp. Cloth. 2s.
- BELL (A. H.). A course of geometry theoretical and practical. London, Rivingtons, 1914. 8vo. 6+127 pp. 2s. 6d.
- BETZ (W.) and WEBB (H. E.). Plane geometry. Boston, Ginn, 1912. 12mo. 10+332 pp. Cloth. \$1.00
- BOURNE (A. A.). See BAKER (W. M.).
- BUKER (E. F.) and FELTER (W. L.). Arithmetics. 3 books. Books 1-2. New York, Silver, Burdett & Co., 1913. \$0.80
- CAJORI (F.). School arithmetics; primary book. New York, Macmillan, 1914. \$0.35
- CAMMAU (P.) et HUOT (J.). Algèbre et géométrie. Classe de première et de seconde A et B. 2me édition. Paris, 1913. Fr. 2.60

- CHIGNELL (N. J.). Numerical trigonometry. Oxford, Clarendon Press, 1914. Cr. 8vo. 140 pp. 2s. 6d.
- COATES (J. V. H.). A first book of geometry. London, Macmillan, 1912. 8vo. 12+142 pp. 1s. 6d.
- COX (H. C.), TALLANT (G. A.) and UMHOLTZ (F. H.). Modern arithmetic, elementary. Chicago, Lyons & Carnahan, 1913. 6+443 pp. \$0.60
- DRONKE (J.) und LÖTZBEYER (P.). Mathematische Aufgaben für die Oberstufe höherer Lehranstalten. Dresden, Ehlemann, 1914. 230 pp.
- DURELL (F.). Algebra. Book 1. New York, Merrill, 1914. \$1.00
- FAZZARI (G.). Elementi di aritmetica con note storiche e numerose questioni varie per le scuole medie superiori. Parte prima: Numeri interi. Operazioni, divisibilità, numeri primi. 2a edizione. Palermo, Reber, 1911. 12mo. 8+127 pp. L. 1.40
- FELTER (W. L.). See BUKER (E. F.).
- FERGUSON (J. C.). Fergusson's percentage trigonometry or plane trigonometry reduced to simple arithmetic, with a short description of his percentage compass. London, Longmans, 1914. 8vo. 155 pp. Cloth. 3s. 6d.
- FITE (W. B.). Second course in algebra. Boston, Heath, 1914. \$0.90
- GALDÉANO (Z. G. DE). Congreso de la enseñanza matemática celebrado en París del 1 al 4 de Abril. Conferencia dada en la Facultad de Ciencias de Zaragoza el día 22 Abril. Zaragoza, 1914. 8vo. 39 pp.
- GERLACH (A.). Lebensvoller Rechenunterricht. 1ter Teil: Einführung und Unterstufe. Leipzig, Voigtländer, 1914. 215 pp. M. 4.25
- GIFFORD (MRS. E.). Natural sines to every second of arc and eight places of decimals. Published by Mrs. Gifford, Oaklands, Chard, Somerset, 1914. 6+543 pp. 20s.
- GILLESPIE (F. C.). Worked exercises in elementary geometry. London, Milford, 1914. 3s. 6d.
- GRABOWSKI (J.). Benedykta Herberta Arithmetica linealis, Cracoviae, 1577. Krakowie, 1913. 15 pp.
- HANSEN (H. J. P.) og RASMUSSEN (H.). Geometriske øvelser. 2 Teile. Kopenhagen, Gyldendalske Boghandel, 1914. 32+70 pp.
- HARVEY (L. D.). Essentials of arithmetic. Books 1-2. New York, American Book Co., 1914. \$0.25+\$0.50
- HERRICK (F. M.). Arithmetical and geometrical calculations by analytical statement and comparative cancellations. Princeton, Ill., Herrick & Horton, 1914. 143 pp. \$1.00
- HUOT (J.). See CAMMAU (P.).
- JACOB (J.). Praktische Methodik des mathematischen Unterrichts. Mit einem Vorwort von E. Mach. Wien, 1914. M. 3.40
- JACQUET (E.) et LACLEF (A.). Arithmétique du brevet élémentaire et des cours complémentaires. 12me édition. Paris, 1913.
- JAHNKE (E.). Die Mathematik an Hochschulen für besondere Fachgebiete. (Abhandlungen über den mathematischen Unterricht in Deutschland, Band IV, Heft 7.) Leipzig, Teubner, 1911. 8vo. 6 + 55 pp. M. 1.80

- KNAB (P.). Rechenbuch für höhere und mittlere Lehranstalten. 2te u. 3te Auflage. Freiburg i. Br., Herder, 1914. 240 pp. M. 3.00
- KUNDT (F.). Arithmetische Aufgaben mit einem Anhang von Aufgaben aus der Stereometrie für Lyzeen (höhere Mädchenschulen) und die unteren Klassen der Studienanstalten. Leipzig, Teubner, 1914. Gr. 8vo. M. 2.00
- LACLEF (A.). See JACQUET (E.).
- LEIGH (C. W.). See PALMER (C. I.).
- LEMOINE (A.). Arithmétique. Théorie, exercices et problèmes. 3e édition. Paris, 1913. Fr. 1.00
- . 160 leçons d'arithmétique. Théorie. 2800 exercices et problèmes. 2me édition. Paris, 1913. Fr. 4.00
- LÖTZBEYER (P.). See DRONKE (J.).
- MAIR (D. B.). Exercises in mathematics. With answers and hints. London, Macmillan, 1914. Cr. 8vo. 4s. 6d. Without answers and hints. 3s. 6d.
- MAXSON (W. S.). Practical self-keyed fundamental number work. Boston, Hammett, 1913. 48 pp. Paper. \$0.05
- MINET (A.) et PATIN (L.). Cours pratique d'arithmétique, de système métrique et de géométrie. Edition rev. et augm. Paris, 1913.
- NUNN (T. P.). The teaching of algebra including trigonometry. London, Longmans, 1914. Cr. 8vo. 7s. 6d.
- PALMER (C. I.) and LEIGH (C. W.). Plane trigonometry with 5-place tables. New York, McGraw-Hill, 1914. 8vo. 156+132 pp. Cloth. \$1.50
- PATIN (L.). See MINET (A.)
- PRICE (E. A.). Solutions of the exercises in Godfrey and Siddon's Shorter geometry. Cambridge, University Press, 1914. 8vo. Cloth. 4s. 6d.
- RASMUSSEN (H.). See HANSEN (H. J. P.).
- SCHLÖMILCH (O.). Fünfstellige logarithmische und trigonometrische Tafeln. 24te Auflage. Braunschweig, Vieweg, 1914. Cloth. M. 1.30
- SCHRÖN (L.). Siebenstellige gemeine Logarithmen der Zahlen von 1 bis 108,000 und der Sinus, Cosinus . . . von 10 zu 10 Sekunden, nebst einer Interpolationstafel zur Berechnung der Proportionaltafel. 28te revidierte stereotyp-Ausgabe. Braunschweig, Vieweg, 1914. Half calf. M. 7.30
- SLICHTER (C. S.). Elementary mathematical analysis. A textbook for first year college students. New York, McGraw-Hill, 1914. 8vo. 490 pp. \$2.50
- SMITH (T. C.). Problem papers in arithmetic for preparatory schools. London, Bell, 1914. Cr. 8vo. 1s. 6d.
- SMOLEY (C. K.). Tables. 8th edition. New York, McGraw-Hill, 1914. 21+330 pp. \$3.50
- SPRAGUE (C. E.). Accountancy of investment, with which are incorporated logarithms to 12 places and their use in interest calculations. New York, Ronald, 1914. Half leather. \$5.00
- TALLANT (G. A.). See COX (H. C.).

- TOURS (F. J. C.). *Eléments d'algèbre. Avec de nombreux exercices.* Paris, 1914.
- UMHOLTZ (F. H.). See COX (H. C.).
- VEGA (G.). *Logarithmic tables of numbers and trigonometrical functions.* 83d ed. New York, Van Nostrand, 1912. 28+575 pp. \$2.00
Half morocco. \$2.50
- WEBB (H. E.). See BETZ (W.).

III. APPLIED MATHEMATICS.

- BENOIT (C.). See LANCHESTER (F. W.).
- BESANT (W. H.). *A treatise on dynamics.* 5th edition, revised and enlarged by A. S. Ramsey. London, Bell, 1914. 8vo. 15+443 pp. 12s.
- BOWIE (W.). *Determination of time, longitude, latitude and azimuth.* 5th edition (reprint). Washington, Coast and Geodetic Survey, 1913. 4to. 177 pp. +plates.
- BROMLEY (C. H.) and COBLEIGH (H. R.). *Mathematics for the practical engineer.* New York, McGraw-Hill, 1914. 10+220 pp. \$2.00
- BURROUGHS MACHINE Co. *Instructions for operating Burroughs adding and listing machines, class one hundred.* 6th edition. Detroit, Mich., Burroughs adding machine Co., 1914. 95 pp.
- BYRD (M. E.). *First observations in astronomy.* Lawrence, Kan., Byrd, 1914. \$1.00
- COBLEIGH (H. R.). See BROMLEY (C. H.).
- CASTANZI (G.). *Sulla esistenza di più regimi quadratici di resistenza per corpi in moto nei fluidi.* Roma, Accademia dei Lincei, 1914. 4to. 12 pp.
- CUNNINGHAM (E.). *The principle of relativity.* Cambridge, University Press, 1914. 8vo. 14+221 pp. 9s.
- DALWIGK (F. VON). *Vorlesungen über darstellende Geometrie.* In zwei Bänden. 2ter Band: *Perspektive, Zentralkollineation und Grundzüge der Photogrammetrie.* Leipzig, Teubner, 1914. 8vo. 12+322 pp. M. 10.00
- DEGRANGES (E.). *Arithmétique commerciale et pratique.* 12me édition 2 parties. Paris, 1913. Fr. 5.00
- DINARO (S.). *Guido pratica dal tornitore meccanico, ovvero sistema unico per la costruzione di viti, ingranaggi e ruote elicoidali.* 6a edizione rifatta con nuove tabelle. Milano, Hoepli, 1914. 12+194 pp. 12mo. L. 2.00
- DONTOT (R.). *Sur les invariants intégraux et quelques points d'optique géométrique.* Paris, 1914. 8vo. 45 pp.
- EGGERT (O.). See JORDAN (W.).
- FABRE (J. H.). *Le ciel. Lectures et leçons de cosmographie pour tous.* Paris. 8vo. Fr. 3.50
- FELT (—) and TARRANT (—). *Applied mechanical arithmetic as practiced on the comptometer.* Chicago, Felt and Tarrant Mfg. Co., 1914. 487 pp. \$15.00

- FÖPPL (A.). Vorlesungen über technische Mechanik. In 6 Bänden. III. Band: Festigkeitslehre. 5te Auflage; IV. Band: Dynamik. 4te Auflage. Leipzig, Teubner, 1914. 8vo. 10+436 pp. Geb.
M. 12.00+12.00
- GELLI (I.). Il Biliardo e il giuoco delle bocce. 3a edizione riveduta. Milano, Hoepli, 1914. 12mo. 12+197 pp. L. 2.50
- HAWKS (E.). The boy's book of astronomy. London, Richards, 1914. Cr. 8vo. 7s. 6d.
- HOCHHEIM (F.). Die Behandlung der Mechanik mit Hilfe der Differential- und Integralrechnung in der Prima der Oberrealschule. Progr. Weissenfels, 1914.
- HORSBURGH (E. M.). Modern instruments and methods of calculation. London, Bell, 1914. Royal 8vo. 6s.
- JORDAN (W.). Handbuch der Vermessungskunde in 3 Bänden. Band II: Feld- und Landmessung. 8te Auflage, bearbeitet von O. Eggert. Stuttgart, 1914. Gr. 8vo. M. 21.40
- KEESOM (W. H.). See LORENTZ (H. A.).
- KÖSTER (A.). Die Nautik im Altertum. Berlin, 1914. 8vo. 36 pp.
M. 0.50
- LANCHESTER (F. W.). Le vol aérien. Aérodynamique. Traduit de l'anglais sur la 2e édition par C. Benoit. Paris, Gauthier-Villars, 1914. 8vo. 16+512 pp. Fr. 14.00
- LECORNU (L.). See POMEY (J. B.).
- LODGE (O.). Radioaktivität und Kontinuität. Zwei Vorträge. Leipzig, 1914. 8vo. 217 pp. M. 5.00
- LORENTZ (H. A.). Das Relativitätsprinzip. Drei Vorlesungen gehalten in Teylers Stiftung zu Haarlem. Bearbeitet von W. H. Keesom. (Beihefte zur *Zeitschrift für math. und naturw. Unterricht aller Schulklassen* 1.) Leipzig, Teubner, 1914. 8vo. 52 pp. M. 1.40
- MCLEOD (H.). See ROYAL SOCIETY.
- MARTIN (L. A.). Hydraulics. Being the fifth volume of the Text-book of mechanics. New York, Wiley, 1914. 8vo. 250 pp. Cloth.
\$1.50
- MELAN (J.) and STEINMAN (D. B.). Theory of arches and suspension bridges. London, Spon, 1914. 8vo. 303 pp. 15s.
- MILLER (H. W.). Descriptive geometry. 3d edition. Peoria, Ill., Manual Arts Press, 1913. Leather. \$1.50
- MINCHIN (G. M.). A treatise on statics with applications to physics. Vol. I: Equilibrium of coplanar forces. 6th edition. London, Milford, 1914. 8vo. 10s. 6d.
- MOURHES (C. A.). Triangulation on coast of Texas from Sabine Pass to Corpus Christi Bay. Washington, Coast and Geodetic Survey, 1913. 4to. 89 pp.+1 pl.+18 maps. (Special Publication No. 17.)
- PICKERING (E.). Commercial arithmetic. 10th edition. London, 1913. 1s.
- POMEY (J. B.). Cours d'électricité théorique avec une préface de L. Lecornu. (Bibliothèque des annales des postes et télégraphes.) Paris, Gauthier-Villars, 1914. Tome I. 8+396 pp. Fr. 13.00

- QUESTIONS on natural science and the harmonic philosophy. Chicago, Indo-Am. Book Co., 1913. 355 pp. Half leather. \$2.00. Key, Leather. \$1.00
- RAMSEY (A. S.). Elementary geometrical optics. London, Bell, 1914. 8vo. 11+173 pp. 6s.
- . See BESANT (W. H.).
- REICHEL (W.). Mathematischer Werkunterricht. Eine Anleitung zur Herstellung und Verwendung einfacher mathematischer Modelle, für Lehrer und Schüler. Leipzig, Quelle & Meyer, 1914. 63 pp.
- ROYAL SOCIETY catalogue: Subject index. Vol. III, Physics; Part II: Electricity and magnetism. Arranged under the superintendence of Herbert McLeod. Cambridge, University Press, 1914. Cloth. 15+551-927+7 pp. 21s.
- SALMOIROGHI (A.). La suddivisione decimale del grado sessagesimale. Torino, Cassone, 1913. 8vo. 8 pp.
- SOREAU (R.). L'hélice aérienne propulsive. Paris, Gauthier-Villars, 1914. 8vo. 4+220 pp. Fr. 6.00
- STEINMAN (D. B.). See MELAN (J.).
- SWICK (C. H.). Triangulation along west coast of Florida. Washington, Coast and Geodetic Survey, 1913. 4to. 147 pp+1 pl.+28 maps. (Special Publication No. 16.)
- TARRANT (—). See FELT (—).
- TRACY (J. C.). Descriptive geometry. New York, Wiley, 1914. 10+126 pp. \$2.00
- WALKER (J. C.). Burroughs business practice hand book. 2d edition. Detroit, Mich., Burroughs Adding Machine Co., 1914. 64 pp. Paper. \$0.50
- WERNADSKI (W. J.). Versuch einer darstellenden Geometrie. Band I, Lieferung 5 (Russisch). St. Petersburg, 1914. 8vo.
- WISLICENUS (W. F.). Der Kalendar in gemeinverständlicher Darstellung. 2te Auflage. Leipzig, 1914. 8vo. 4+118 pp. Cloth. M. 1.25