

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

- BACKES (W.). Ein Nachtrag zu den Beweisen für den Fermatschen Satz $x^n + y^n = z^n$. Mainz, 1915. 4 pp. M. 3.00
- BELL (E. T.). Arithmetical theory of certain numerical functions. (University of Washington Publications in Mathematical and Physical Sciences, vol. 1, No. 1.) Seattle, University of Washington, 1915. 4to. 44 pp. \$0.50
- BÔCHER (M.). Syllabus of a brief course in solid analytic geometry. (Rectangular coordinates.) Cambridge, Mass., Harvard Cooperative Society, 1916. 8vo. 10 pp. Paper. \$0.15
- BONYNGE (W.). See FISHER (A.).
- FISHER (A.). The mathematical theory of probabilities and its application to frequency curves and statistical methods. Translated and edited from the author's original Danish notes with the assistance of W. Bonynge, with an introductory note by F. W. Frankland. Vol. 1. Mathematical probabilities and homograde statistics. New York, Macmillan, 1915. 20+171 pp. \$2.00
- FORD (W. B.). Studies on divergent series and summability. (University of Michigan Studies. Scientific Series, vol. 2.) New York, Macmillan, 1916. 4to. 12+194 pp. Cloth. \$2.50
- FRANKLAND (F. W.). See FISHER (A.).
- FUBINI (G.). Lezioni di analisi matematica. 2a edizione, interamente rifusa. (Grande biblioteca tecnica, no. 9.) Torino, Soc. tip. ed. Nazionale, 1915. 8vo. L. 14.00
- LEWIS (F. P.). Geometrical application of the theory of the binary quintic. (Diss.) Baltimore, Johns Hopkins, 1914. 4to. 24 pp.
- RULF (W.). Analytische Geometrie für höhere Gewerbeschulen. Wien, Deuticke, 1915. 158 pp. Geb. Kr. 3.20
- SPOLTORE (N.). La duplicazione grafica del cubo. Vasto, tip. Zaccagnini, 1915. 8vo. 8 pp. con tavola.
- UDZIELA (E.). Neue Lösung des Fermatschen Problems $x^n + y^n = z^n$. Wien, Udziela, 1915. 6 pp.

II. ELEMENTARY MATHEMATICS.

- ANDERSON (R. F.). See PHILIPS (G. M.).
- BEHRENDSEN (O.) und GÖTTING (E.). Lehrbuch der Mathematik nach modernen Grundsätzen. Leipzig, Teubner, 1915. 8vo. Ausgabe B für Schulen mit realisiertem Lehrplan. Unterstufe. 3te Auflage. 8+350 pp. Oberstufe. 2te Auflage. 7+404 pp. M. 2.80+4.00
- BENEDICT (H. Y.) and CALHOUN (J. W.). Teaching of plane geometry. 2d issue. (Official series, No. 104.) Austin, University of Texas, 1914. 8vo. 57 pp.

- BETZ (W.) and WEBB (H. E.). Solid geometry. With the editorial co-operation of P. F. Smith. Boston, Ginn, 1916. Pp. 22+327-504. \$0.75
- BROOKMAN (T. A.). A practical algebra for beginners. New York, Scribner, 1915. 8vo. 17+322 pp. \$1.12
- CALHOUN (J. W.). See BENEDICT (H. Y.).
- COURTIS (S. A.). Courtis standard practice tests in the four operations with whole numbers. (Efficiency drill series.) Three parts. Yonkers-on-Hudson, World Book Company, 1914. Teacher's manual, paper, \$0.50. Practice tests (48 lesson leaves), \$0.16. Student's record, per package of 50, \$1.00.
- FISCHER (P. B.). Rechenbuch für die unteren und mittleren Klassen der höheren Knabenschulen. Leipzig, Teubner, 1915. Ausgabe in 1 Bande. 4+196 pp. M. 2.20. Ausgabe in 3 Heften. 1ter Teil: Lehrstoff der Sexta. 4+73 pp. M. 1.00. 2ter Teil: Lehrstoff der Quinta. 4+62 pp. M. 0.80. 3ter Teil: Lehrstoff der Quarta. 4+60 pp. M. 0.80.
- GIFFORD (J. B.). Everyday arithmetic. Boston, Little, Brown and Company, 1916. \$0.35
- GÖTTING (E.). See BEHRENDSEN (O.).
- HAMILTON (S.). Key to Hamilton's Arithmetics, second and third books; New Jersey edition. New York, American Book Company, 1915. 188 pp. \$0.64
- HART (W. W.). See WELLS (W.).
- HARTL (H.). Lehrbuch der Planimetrie. 3te Auflage. Wien, Deuticke, 1915. 143 pp. Geb. Kr. 3.00
- HARVEY (L. D.). Essentials of arithmetic; with everyday problems relating to agriculture, commerce, and other vocations. (Three book series.) 2d book, parts 1-2. New York, American Book Company, 1915. \$0.36+0.36
- HOLLOWAY (H. V.). Experimental study to determine the relative difficulty of the elementary number combinations in addition and multiplication. Bordentown, N. J., Holloway, 1915. 8vo. 102 pp. \$1.00
- HOYT (F. S.) and PEET (H. E.). Everyday arithmetic. 3 books. Boston, Houghton-Mifflin, 1915. 138 +140+190 pp. \$0.40+0.40+0.45
- JACOB (J.). Arithmetik. 3ter Teil: Oberstufe. 2te Auflage. Wien, Deuticke, 1915. 111 pp. Schlüssel dazu. 84 pp. Geb. Kr. 2.20+2.40
- JESSUP (W. A.). Economy of time in arithmetic. (University of Iowa extension bulletin, No. 5.) 8vo. Pp. 461-476. Paper. Gratis.
- MILLS (J. F.). See STONE (J. C.).
- MILNE (W. J.). Key to New York state arithmetic; first and second books. New York, American Book Company, 1915. 304 pp. \$0.80
- MINER (G. W.). See MOORE (J. H.).
- MLODZIEVSKY (B.). Rapport sur l'enseignement mathématique aux cours supérieurs des femmes à Moscou. (Commission internationale de l'enseignement mathématique. Sous-commission russe.) Petrograd, Luinik, 1915. 20 pp.

- MOORE (J. H.) and MINER (G. W.). Concise business arithmetic. Boston, Ginn, 1915. 8vo. 6+283 pp. \$0.75
- MUNDT (J.). Rechenaufgaben über den Weltkrieg für die deutsche Jugend. Cöln, P. Schmitz, 1915. 24 pp. M. 0.10
- OSBERG (E. V.). Elementary algebra. (Machinery's reference series, No. 138.) New York, Industrial Press, 1914. 40 pp. Paper. \$0.25
- PEET (H. E.). See HOYT (F. S.).
- PENDLETON (F. T.). Modern arithmetic. New London, Conn., F. T. Pendleton, 1914. 37 pp. \$0.25
- PHILIPS (G. M.) and ANDERSON (R. F.). Course of study in arithmetic for grades below the high school. Boston, Silver, Burdett and Company, 1915. 45 pp. Gratis.
- RUBINSTEIN (A.). Review in algebra for those who know algebra but want to know it well enough to pass an examination. Revised edition. New York, Hinds, Noble and Eldridge, 1915. 60 pp. \$0.25
- SMITH (P. F.). See BETZ (W.).
- SOMERVILLE (F. H.). Key to elementary algebra. Revised edition. New York, American Book Company, 1915. 374 pp. \$1.00
- STONE (J. C.) and MILLIS (J. F.). Manual and course of study for teachers of arithmetic. Chicago, Sanborn, 1914. 38 pp. \$0.10
- WAGNER (E.). Repetitorium der Mathematik. 2ter Teil: Trigonometrie, Stereometrie, Maxima und Minima. Strassburg in Els., Van Hauten, 1914. 92 pp.
- WEBB (H. E.). See BETZ (W.).
- WEINTROB (R.). Silk arithmetic. New York, Simmons, 1915. 47 pp. \$0.35
- WELLS (W.) and HART (W. W.). Plane and solid geometry. Boston, Heath, 1916. 8vo. 10+467 pp.

III. APPLIED MATHEMATICS.

- ANNUAIRE astronomique et météorologique. Paris, Flammarion, 1916. 431 pp.
- ANNUAIRE pour l'an 1916 publié par le Bureau des Longitudes. Paris, Gauthier-Villars, 1915. 6+502 pp. Fr. 1.50
- ANNUARIO del observatorio de Madrid para 1916. Madrid, Bailly-Balliere, 1916. 645 pp.
- ASHWORTH (J. R.). An introductory course of practical magnetism and electricity. 3d edition. London, Whittaker, 1916. 17+96 pp. 2s.
- AUERBACH (F.). Die Physik im Kriege. 2te Aufgäe. Jena, Fischer, 1915. 4+209 pp. M. 4.00
- BOWLEY (A. L.). Elementary manual of statistics. (Modern commercial text-books.) New York, Scribner, 1914. 8vo. 215 pp. \$2.00
- DADOURIAN (H. M.). Analytical mechanics. 2d edition. New York, Van Nostrand, 1915. \$3.00
- ERWIN (M.). The universe and the atom. London, Constable, 1916. 8vo. 8s. 6d.

- EVANS (C. T.). Arithmetic of elementary chemistry. Pottstown, Pa., Hill School, 1914. 99 pp. \$1.00
- FREUCHEN (P. B.). Termodynamik. Kjöbenhavn, Lehmann, Stages Forlag, 1916. 144 pp.
- HALER (P. J.) and STUART (A. H.). A first course in engineering science. London, University Tutorial Press, 1915. 8+191 pp. 2s. 6d.
- HAWKINS (N.). Self-help mechanical drawing; an educational treatise. New York, Audel, 1915. 8vo. 13+299 pp. \$2.00
- HUTTON (P. W.). Mechanical drawing for industrial and continuation schools. Chicago, Scott, Foresman and Company, 1915. 8vo. 176 pp. \$0.90
- KOITCAMP (J. P.). Elementary mechanics for the practical engineer; engineer's study course from power. New York, McGraw-Hill, 1915. 8vo. 7+181 pp. \$1.50
- LEEDS (C. C.). Mechanical drawing for technical and high schools. 3d edition. New York, Van Nostrand, 1915. \$1.25
- MAILLOUX (C. O.). See SEMENZA (G.).
- MASO (R. P. M. S.). Historia del observatorio de Manila, 1865-1915. Manila, E. C. McCullaugh, 1915. 210 pp.
- MEYER (A. F.). Graphs of meteorological and hydrological data. Minneapolis, Northwestern School Supply, 1915. 8vo. 47 pp. Paper. \$0.15
- MILLER (D. C.). The science of musical sounds. New York, Macmillan, 1916. \$2.50
- PÜNING (H.). Lehrbuch der Physik. 10te Auflage. Münster, Aschen-dorff, 1915. 35 pp. M. 3.70
- SCHRAIDT (F. F.). Geometrical drawing; a selection of plates for practical use in elementary mechanical drawing. San Francisco, Whittaker and Ray-Wiggin, 1915. 8vo. 78 pp. \$0.65
- SEMENZA (G. and M.). Graphical determination of sags and stresses for overhead line construction. Translated from the Italian by C. O. Mailloux. New York, McGraw-Hill, 1915. 10+24 pp. \$3.00
- SEMENZA (M.). See SEMENZA (G.).
- SMITH (E.). Evolution of a gravitating, rotating, condensing fluid. (University of Cincinnati Studies.) Cincinnati, 1915. 45 pp. Paper. \$0.50
- STUART (A. H.). See HALER (P. J.).
- THOMAS (C. M.). Compass surveying and the simplified calculation of farm areas. Wytheville, Pa., C. M. Thomas, 1915. 8vo. 6+92 pp. \$2.00
- WEICH (C. W.). Elementary mechanical drawing; theory and practice, with chapters on geometrical drawing, mensuration, and reproduction of drawings: a text-book for technical, secondary, trade and vocational schools. New York, McGraw-Hill, 1915. 8vo. 10+250 pp. \$1.75

