

first volume of VALLÉE-POUSSIN's *Cour d'Analyse*. The book, in its original form, is extremely rare, very few copies having been sent out from Louvain before the destruction of the city.

PROFESSOR G. FUBINI, of the technical school at Turin, has been elected a corresponding member of the *Accademia dei Lincei*.

PROFESSOR E. LAURA, of the University of Messina, has been appointed associate professor of mechanics at the University of Padua.

DR. B. CALDONAZZO has been appointed docent in mechanics in the technical school at Milan.

MR. R. W. BARNARD has been appointed instructor in mathematics in the University of Michigan.

CHARLES J. WHITE, emeritus professor of mathematics in Harvard University, died February 12 at the age of 78 years.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

BOREL (E.). See VALLÉE-POUSSIN (C. DE LA).

CREMONA (L.). *Opere matematiche*. Tomo 3 con notizie della vita e delle opere dell'autore e con indice alfabetico per materie. Milano, Hoepli (Pisa, succ. fratelli Nistri), 1916. 4to. 22+520 pp. L. 30.00

FRAENKEL (A.). *Ueber gewisse Teilbereiche und Erweiterungen von Ringen*. Leipzig, Teubner, 1916. 8vo. 64 pp. M. 2.80

HANCOCK (H.). *Elliptic integrals*. (Mathematical monographs, No. 18.) New York, Wiley, 1916. 8vo. 125 pp. \$1.25

JOSEPH (H. W. B.). *An introduction to logic*. 2d edition, revised and enlarged. New York, Oxford University Press, 1916. 8vo. 12+608 pp. \$3.15

JOYCE (G. H.). *Principles of logic*. 2d edition. New York, Longmans, 1916. 8vo. 20+431 pp. \$2.50

MANCINI (G.). *L'opera "De corporibus regularibus" di Pietro Franceschi detto Della Francesca usurpata da Fra Luca Pacioli*. Memoria con tavole. (*Reale Accademia dei Lincei*, Anno CCCXII, 1915.) Roma, Pio Befani, 1915. 4to. 144 pp.+17 tavole.

- PHILLIPS (H. B.). Differential calculus. New York, Wiley, 1916. 8vo. 5+162 pp. \$1.25
- PRINGSHEIM (A.). Vorlesungen über Zahlen- und Funktionenlehre. 1ter Band, 1te Abteilung: Reelle Zahlen und Zahlenfolgen. Leipzig, Teubner, 1916. 8vo. 12+292 pp. Geh. M. 12.00
- SLAUGHT (H. E.). See WILCZYNSKI (E. J.).
- STAGER (H. W.). A Sylow factor table of the first twelve thousand numbers, giving the possible number of Sylow sub-groups, of a group of given order between the limits of 0 and 12,000. Washington, Carnegie Institution, 1916. 12+120 pp.
- VALLÉE-POUSSIN (C. DE LA). Intégrales de Lebesgue. Fonctions d'ensemble. Classes de Baire. Leçons professées au Collège de France. (Collection de monographies sur la théorie des fonctions publiée sous la direction de M. Emile Borel.) Paris, Gauthier-Villars, 1916. 8vo. 8+154 pp. Fr. 7.00
- WILCZYNSKI (E. J.). College algebra with applications edited by H. E. Slaughter. Boston, Allyn and Bacon, 1916. 8vo. 20+507 pp. Cloth. \$2.00

II. ELEMENTARY MATHEMATICS.

- ARNOLD (E. E.). See DURELL (F.).
- BETZ (W.) and WEBB (H. E.). Plane and solid geometry. With the editorial cooperation of P. F. Smith. Boston, Ginn, 1916. 11+507 pp. Cloth. \$1.36
- BOOKMAN (C. M.). Business arithmetic. New York, American Book Company, 1914. 12mo. 250+12 pp. \$0.65
- COFFMAN (L. D.). See JESSUP (W. A.).
- DEMING (A. G.). Number stories. Chicago, Beckley-Cardy Company, 1916. 205 pp. Cloth.
- DURELL (F.) and ARNOLD (E. E.). Plane geometry. New York, Merrill, 1916. 300 pp. \$0.88
- HAMM (F. P.). Outline and suggestive methods and devices on the teaching of elementary arithmetic. Philadelphia, Lippincott, 1916. 5+40 pp. \$1.00
- JESSUP (W. A.) and COFFMAN (L. D.). Supervision of arithmetic. New York, Macmillan, 1916. 7+225 pp. Cloth.
- MILNE (W. J.). Second course in algebra. New York, American Book Company, 1914. 12mo. 288 pp. Cloth. \$0.88
- . Standard algebra, revised. New York, American Book Company, 1914. 12mo. 496+52 pp. \$1.00
- RIVENBURG (R. H.). A review of algebra. New York, American Book Company, 1914. 12mo. Cloth. 80 pp. \$0.36
- ROBBINS (E. R.). New plane and solid geometry. New York, American Book Company, 1916. 8vo. Cloth. 460 pp. \$1.40. Solid geometry. 158 pp. \$0.80. Plane geometry. 264 pp. \$0.80
- SMITH (P. F.). See BETZ (W.).
- TAVOLE logaritmiche a cinque cifre decimali, raccolte e pubblicate per cura dell'Istituto idrografico della r. marina. 2a edizione. Genova, tip. Istituto idrografico della r. marina, 1916. 8vo. 27+524 pp.

- THOMAS (A. O.). Rural arithmetic. New York, American Book Company, 1916. 8vo. 288 pp. Cloth. \$0.68
- WEBB (H. E.). See BETZ (W.).
- WHEELER (A. H.). Examples in algebra. Boston, Little, Brown and Company, 1916. 14+257 pp. \$0.90

III. APPLIED MATHEMATICS.

- ARPESANI (C.). Elementi di tecnologia meccanica. Lavorazione dei metalli. 2a edizione rinnovata ed ampliata. Milano, Hoepli, 1915. 16+603 pp. L. 5.50
- AUSTIN (F. E.). Examples in alternating currents. (For students and engineers.) Vol. 1. 2d edition. Hanover, N. H., F. E. Austin, 1916. 223 pp. Cloth. \$2.00
- BELDING (A. G.). Accounts and accounting practice. New York, American Book Company, 1916. 8vo. 224 pp. \$0.90
- BEXELL (J. A.) and NICHOLS (F. G.). Principles of book-keeping and farm accounts. New York, American Book Company, 1914. 8vo. 180 pp. \$0.65
- BRODIE (O. L.). See MORRISON (C. E.).
- BROUGH (B. H.). A treatise on mine-surveying. 14th edition revised and enlarged by H. Dean. London, C. Griffin, 1916. 18+477 pp. 7s. 6d.
- CAIN (W.). Earth pressure, retaining walls and bins. New York, Wiley, 1916. 297 pp. Cloth. \$2.50
- CARPENTER (C. K.). See WOLFARD (M. R.).
- CLAUDI (C.). Manuale di prospettiva. 4a edizione riveduta. Milano, Hoepli, 1915. 12+76 pp. L. 2.50
- CONTALDI (P.). La meccanica e le macchine nella scuola e nell'industria. 3a edizione riveduta ed ampliata. Milano, Hoepli, 1914-1916. 8vo. 16+676+16+768 pp. L. 12.00+12.00
- DEAN (H.). See BROUGH (B. H.).
- DEL FABRO (G.). Manuale di topografia per pratica e per studio. 3a edizione riveduta ed aumentata. Milano, Hoepli, 1914. 43+629 pp.
- EFFEMERIDI astronomiche ad uso dei naviganti per l'anno 1917 (Istituto idrografico della r. marina). Genova, tip. Istituto idrografico della r. marina, 1916. 8vo. 187 pp. L. 1.50
- FORBES (G.). David Gill: man and astronomer. Memories of Sir David Gill, astronomer (1879-1907) at Cape of Good Hope. Collected and arranged by G. Forbes. London, Murray, 1916. 11+418 pp. 12s.
- GARUFFA (E.). L'aviazione. Milano, Hoepli, 1916. L. 8.50
- HOLT (A. H.). Field astronomy. New York, Wiley, 1917. 8vo. 10+128 pp. Leather. \$1.50
- KAYE (G. W. C.) and LABY (T. H.). Tables of physical and chemical constants and some mathematical functions. 2d edition. New York, Longmans, 1916. 8vo. 8+153 pp. \$2.00
- KIDDER (F. E.) and NOLAN (T.). Architects' and builders' pocket book. 16th edition, rewritten. New York, Wiley, 1915. 1856 pp. \$5.00

- LABY (T. H.). See KAYE (G. W. C.).
- LORENTZ (H. A.). The theory of electrons and its applications to the phenomena of light and radiant heat. 2d edition. Leipzig, Teubner, and New York, Stechert, 1916. 8vo. Geh. M. 9.00
- MALAVASI (C.). Vademecum per l'ingegnere costruttore meccanico. 3a edizione notevolmente ampliata, con speciale riguardo alle esigenze dell'insegnamento tecnico. Milano, Hoepli, 1916. 36+862 pp. L. 10.50
- MARGUET (F.). Cours d'astronomie. Paris, Challamel, 1916. Svo. Fr. 10.00
- MIESSNER (B. F.). Radiodynamics. The wireless control of torpedoes and other mechanisms. New York, Van Nostrand, 1916. 206 pp. Cloth. \$2.00
- MORRISON (C. E.) and BRODIE (O. L.). Masonry dam design, including high masonry dams. 2d edition. New York, Wiley, 1916. 285 pp. Cloth. \$2.50
- NICHOLS (F. G.). See BEXELL (J. A.).
- NOLAN (T.). See KIDDER (F. E.).
- RAYMOND (W. G.). Plane surveying. New York, American Book Company, 1914. 12mo. 589 pp.+7 plates. Leather. \$3.00
- Railroad field manual for civil engineers. New York, Wiley, 1915. 7+398 pp. Leather. \$3.00
- RONCHETTI (G.). Grammatica del disegno. Metodo pratico per imparare il disegno. 2a edizione, interamente rifatta. Milano, Hoepli, 1915. 8vo. 8+225 pp.+un vol. di 80 tavole. L. 7.50
- RORAY (N. L.). Industrial arithmetic. Philadelphia, Blakiston, 1916. 8+144 pp. \$0.75
- SPATARO (D.). Trattato teorico e pratico di idromeccanica. Volume 1. Milano, Hoepli, 1915. 8vo. 16+448 pp. L. 10.00
- STEVENS (J. S.). Theory of measurements. A manual for physics students. New York, Van Nostrand, 1915. 8vo. 88 pp. \$1.25
- VIAPPANI (A.). Trattato di idraulica pratica. Raccolta di formole e dati pratici da servire di guida nello studio nelle questioni relative al movimento delle acque, sia per utilizzarle in pro dell' agricoltura, industria, igiene e navigazione. . . . 2a edizione, riveduta e sensibilmente riformata. Milano, Hoepli, 1915. 32+740 pp.+14 tavole. L. 14.00
- WOLFARD (M. R.) and CARPENTER (C. K.). The W-PVT chart. New York, Wiley, 1915. 24 by 38 inches. \$0.50