

BOOK CATALOGUES:—Longmans, Green, and Company, Fourth Avenue and 30th Street, New York, text-books and reference works for colleges and technical schools, 16 pp.—The Macmillan Company, 66 Fifth Avenue, New York, books on mathematics and astronomy, 68 pp.—Galloway and Porter, Cambridge, England, short lists of mathematical and physical books, 77 entries.—Librairie Paul Ritti, 76 Avenue du Maine, Paris, Bulletin périodique, mathématique, 41 entries.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

- BLICHFELDT (H. F.). Finite collineation groups. Chicago, University of Chicago Press, 1917. 12mo. 12+194 pp. \$1.50
- DARBOUX (G.). Principes de géométrie analytique. Paris, Gauthier-Villars, 1917. 8vo. 6+520 pp. Fr. 20.00
- FERNÁNDEZ BAÑOS (O.). Estudio sintético de los espacios complejos de n dimensiones. (Junta para ampliación de estudios e investigaciones científicas, Laboratorio y seminario matemático, Tomo 2, Memoria 1.) Madrid, 1917. 8vo. 80 pp.
- HUDSON (R. G.) and LIPKA (J.). A manual of mathematics. New York, Wiley, 1917. 8vo. 2+132 pp. \$1.00
- . A table of integrals. New York, Wiley, 1917. 8vo. 25 pp. Paper. \$0.15
- LIPKA (J.). See HUDSON (R. G.).
- MICHEL (C.). Cours d'algèbre et d'analyse, à l'usage de la classe de mathématiques spéciales et des candidats aux écoles du gouvernement. Paris, Alcan, 1917. 8vo. Fr. 18.00
- FRINGSHEIM (A.). Vorlesungen über Zahlen- und Funktionenlehre. 1ter Band, 2te Abteilung: Unendliche Reihen mit reellen Gliedern. Leipzig, Teubner, 1916. 8vo. 222 pp. M. 10.80

II. ELEMENTARY MATHEMATICS.

- AUSTIN (F. E.). Preliminary mathematics. Hanover, N. H., F. E. Austin, 1917. 169 pp. \$1.20
- BELL (A. H.). Algebra, theoretical and applied: a class-book for secondary, higher elementary and technical schools. London, Blackie, 1916. 8vo. 354 pp. 4s. 6d.
- CONCINA (U.) e NEPPI-MODONA (A.). Trigonometria piana ad uso dei licei. Con 50 figure e 809 esercizi e problemi. Torino, Casa G. B. Petrini di Giovanni Galizio, 1917.
- . Trigonometria piana e sferica ad uso degli istituti tecnici. Con 75 figure e 1000 esercizi e problemi. Torino, Casa G. B. Petrini di Giovanni Galizio, 1917.

- COULOM (F.) et WEILL (—). Nouveau cours de géométrie théorique et pratique. 3e année. Paris, Delagrave, 1917. 12mo. Fr. 2.25
- CRONFELT (S.). Lærebog i Aritmetik og Algebra (med et Tillæg om Effekter og Veksler) for Realklassen. København, Steen Hasselbalch (Jacob Erslev), 1916. 8vo. 104 pp. Kr. 1.75
- FRATTINI (—). Lezioni de algebra, geometria e trigonometria piana e sferica con molti esempi sull'intero programma del secondo biennio degl'istituti tecnici (sezione fisico-matematica). Volume 2 per la quarta classe. 3a edizione. Torino, Paravia, 1917.
- GONGGRIJP (B.). Logarithmische en goniometrische tafels en bijtafels. Groningen, Noordhoff, 1916. 8vo. 230 pp. Fl. 1.70
- HAWKES (H. E.), LUBY (W. A.) and TOUTON (F. C.). First course in algebra. Revised edition. Boston, Ginn, 1917. 10+301 pp. \$1.00
- LEMOINE (A.). Arithmétique. Cours supérieur et complémentaire. Brevet élémentaire. Livre du maître. Paris, Hachette, 1917. 12 mo. Fr. 4.00
- LUBY (W. A.). See HAWKES (H. E.).
- MARTINI-ZUCCAGNI (A.). Guida pratica per la risoluzione delle equazioni di 1° e 2° grado con 214 esercizi risolti. 5a edizione. Livorno, Giusti, 1917. L. 1.50
- NEPPI-MODONA (A.). See CONCINA (U.).
- SMITH (O. A.). Praktische Regneopgaver for Realklassen. København, Gjellerup, 1916. 24 pp.
- TOUTON (F. C.). See HAWKES (H. E.).
- WEILL (—). See COULOM (F.).
- WIJDENES (P.). Logarithmen en rententafels. Groningen, Noordhoff, 1916. 8vo. 64 pp. Fl. 0.50

III. APPLIED MATHEMATICS.

- BOTTASSO (M.). Analyse vectorielle générale. Volume 4: Astatique. Avec une préface de R. Marcolongo. Pavia, Mattei, 1915. 8vo. 16+159 pp. Fr. 6.00
- BRUNT (D.). The combination of observations. Cambridge, University Press, 1917. 8vo. 10+219 pp. 8s.
- BURTON (E. F.). The physical properties of colloidal solutions. New York, Longmans, 1916. 7+200 pp. \$1.80
- CREAGER (W. P.). Engineering for masonry dams. New York, Wiley, 1917. 250 pp. \$2.50
- DALE (R. B.). Drawing for builders. New York, Wiley, 1916. 200 pp. \$1.50
- DOYÈRE (C.). Cours pratique de construction navale. 1re partie: Géométrie du navire. Calculs de déplacement et de stabilité. 2e édition, revue et augmentée. Paris, Challamel, 1917. 8vo. Fr. 10.00
- DUCHÊNE (E. A.). Flight without formulae: simple discussions on the mechanics of the aeroplane. Translated from the French by J. H. Ledebor. 2d edition. New York, Longmans, 1917. 8+211 pp. \$2.50

- GROSSMANN (M.). Elemente der darstellenden Geometrie. (Teubners Leitfaden für den mathematischen und technischen Hochschulunterricht.) Leipzig, Teubner, 1917. 84 pp. M. 2.00
- HENDERSON (W. D.). Problems in physics. New York, McGraw-Hill, 1916. 8+205 pp. \$1.50
- HUDSON (R. G.), LIPKA (J.), LUTHER (H. B.) and PEABODY (D.). The engineers' manual. New York, Wiley, 1917. 310 pp. \$2.00
- ISENTHAL (A.). See LILIENTHAL (O.).
- JAHNKE (E.). See MEHMKE (R.).
- JUDGE (A. W.). The properties of aerofoils and aerodynamic bodies. London, Whittaker, 1917. 8vo. 10+298 pp. 15s.
- LEDEBOER (J. H.). See DUCHÊNE (E. A.).
- LILIENTHAL (G.). See LILIENTHAL (O.).
- LILIENTHAL (O.). Bird flight as the basis of aviation: a contribution toward a system of aviation. With a biographical introduction and addendum by G. Lilienthal. Translated from the second edition by A. Isenthal. New York, Longmans, 1917. 8vo. 14+142 pp. \$2.50
- LIPKA (J.). See HUDSON (R. G.).
- LUTHER (H. B.). See HUDSON (R. G.).
- MARCOLONGO (R.). See BOTTASSO (M.).
- MEHMKE (R.). Leitfaden zum graphischen Rechnen. (Sammlung mathematisch-physikalischer Lehrbücher, herausgegeben von E. Jahnke.) Leipzig, Teubner, 1917. 8+152 pp. M. 4.80
- MELAN (J.) and STEINMAN (D. B.). Plain and reinforced concrete arches. 2d edition. New York, Wiley, 1917. 171 pp. \$2.00
- NOTTAGE (W. H.). The calculation and measurement of inductance and capacity. London, The Wireless Press, 1917. 8vo. 137 pp. 2s. 6d.
- PEABODY (D.). See HUDSON (R. G.).
- RICCARDO-BRAUZZI (—). Cours d'aéronautique générale. 1re partie: Etude des questions qui intéressent tous les modes de locomotion aérienne. Paris, Dunod et Pinat, 1917. 8vo. 344 pp. Fr. 30.00
- RICHARDSON (O. W.). The emission of electricity from hot bodies. New York, Longmans, 1916. 6+304 pp. \$2.75
- RUGGLES (C. L.). Stresses in wire-wrapped guns and in gun carriages. New York, Wiley, 1916. 270 pp. \$3.00
- SERVICE des grands forces hydrauliques (Région des Alpes). Tome VII: Compte rendu des résultats des études et travaux au 31. décembre 1915. Paris, Dunod et Pinat, 1917. 8vo. 481 pp. Fr. 30.00
- STEINMAN (D. B.). See MELAN (J.).
- WATERBURY (L. A.). Stresses in structural steel angles. New York, Wiley, 1917. 82 pp. \$1.25