

PROFESSOR E. OTT, of the University of Bern, died November 17, 1917, at the age of seventy years.

PROFESSOR F. R. HELMERT, of the University of Berlin, died June 15, 1917, at the age of seventy-three years.

THE death is reported of Professor CYPARISSOS STÉPHANOS, of the University of Athens.

LEWIS B. CARLL, the blind author of the first American treatise on the calculus of variations (published in 1881), died March 22, 1918, at the age of seventy-four years.

PROFESSOR H. R. HIGLEY, of the Stevens Institute of Technology, died May 1, 1918, at the age of fifty-four years.

BOOK CATALOGUES:—Galloway and Porter, Cambridge, England, list number 91, 149 titles in mathematics and physics. —Henry Sotheran and Co., 140 Strand, London, catalogue 770, exact and applied science, 928 titles in mathematics.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

- ASKWITH (E. H.). A course of pure geometry containing a complete geometrical treatment of the properties of the conic sections. New edition revised and enlarged. Cambridge, University Press, 1917. Demy 8vo. 11 + 284 pp. 7s. 6d.
- CAREY (F. S.). Infinitesimal calculus. Section 2. London, Longmans, Green and Company, 1917. 10s. 6d.
- CISOTTI (U.). Lezioni di analisi matematica, svolte nel r. Istituto tecnico superiore di Milano. Pavia, tip. Cooperativa, 1918. 8vo. 16 + 674 pp. L. 30.00
- CRAWLEY (E. S.) and EVANS (H. B.). Analytic geometry. Philadelphia, E. S. Crawley, 1918. 8vo. 14 + 239 pp.
- EVANS (H. B.). See CRAWLEY (E. S.).
- INTERNATIONAL catalogue of scientific literature. Fourteenth annual issue. A: Mathematics. London, Harrison, 1917. 8vo. 8 + 163 pp. Paper. 15s.
- MICHEL (C.). Cours d'algèbre et d'analyse. Paris, Alcan, 1916. 8vo. 10 + 860 pp.

- RUSSELL (B.). *Mysticism and logic, and other essays.* New York, Longmans, Green and Company, 1918. 8vo. 8 + 234 pp. \$2.50
- SHAW (J. B.). *Lectures on the philosophy of mathematics.* Chicago and London, Open Court, 1918. 8 + 206 pp. \$1.50
- STADLER (G.). *Etudes sur l'équation $\delta^p u / \delta x^p = a \Delta^m u = 0$.* (Diss., Lund.) Lund, 1916. 4to. 6 + 89 pp.

II. ELEMENTARY MATHEMATICS.

- BRENKE (W. C.). *Advanced algebra.* New York, Century Company, 1917. 8vo. 8 + 196 pp. Cloth. \$1.25
- . *Elements of trigonometry with tables.* New York, Century Company, 1917. 8vo. 6 + 122 + 40 pp. Cloth. \$1.25
- LYNDE (L. E.). See NEWTON (F. E.).
- NEWTON (F. E.) and LYNDE (L. E.). *Exercises in plane geometry with syllabus and definitions. Designed for the second reading of the subject.* 3d edition. Andover, Mass., Andover Press, 1918. 86 pp. \$0.75
- PAGLIERO (G.). *Come si usano i logaritmi per calcolare rapidamente: teoria e pratica; tavola dei logaritmi a quattro decimali.* Torino, ditta G. B. Paravia, 1917. 8vo. 47 pp. L. 2.00
- THOMPSON (J. B.). *The art of teaching arithmetic.* New York, Longmans, Green and Company, 1917. 8vo. 8 + 295 pp. \$1.35
- UNWIN (W. C.). *Short logarithmic and other tables.* 6th edition. London, Spon, 1918. 1s. 6d.
- ZORETTI (L.). *Tables numériques usuelles à l'usage des ingénieurs, des étudiants des facultés, des élèves des lycées et des écoles primaires supérieures, etc.* Paris, Gauthier-Villars, 1917. 52 pp. Cartonné. Fr. 3.00

III. APPLIED MATHEMATICS.

- AMERICAN ephemeris and nautical almanac, 1919. Washington, Government Printing Office, 1917. 8vo.
- ATTWOOD (E. L.). *A text-book of laying off, or the geometry of ship-building.* 2d edition. New York, Longmans, Green and Company, 1918. 8vo. 8 + 123 pp. \$2.00
- BUCHERER (E.). *Grundzüge der mathematischen Geographie.* Basel, Krebs, 1917. 8vo. 40 pp.
- DANFORD (R. M.). See MORETTI (O.).
- EFFEMERIDI astronomiche ad uso dei naviganti per l'anno 1918 (Istituto idrografico della r. marina). Genova, tip. Istituto idrografico della r. marina, 1917. 8vo. 6 + 191 pp. L. 2.00
- FLAMARD (E.). *Calcul des systèmes élastiques de la construction.* (Encyclopédie industrielle.) Paris, Gauthier-Villars, 1918. 8vo. 6 + 200 pp. Fr. 12.00
- FLAMMARION (C.). *Annuaire astronomique et météorologique pour 1918.* Paris, Flammarion, 1918. 364 pp. Fr. 3.00

- JAEGER (F. M.). Lectures on the principle of symmetry and its applications in all natural sciences. Amsterdam, Uitgevers Maatschappij Elsevier, 1917. 8vo. 333 pp.
- MEMENTO Oppermann, à l'usage des ingénieurs, architectes, agents voyers, conducteurs de travaux, mécaniciens, industriels, entrepreneurs. Paris, Béranger, 1918. 16mo. 268 pp. Fr. 6.00
- MORETTI (O.). Notes on training; field artillery details. Prepared under the direction of R. M. Danford. New Haven, Yale University Press, 1917. 8vo. 12 + 275 pp.
- RODET (J.). Notions d'acoustique. Les instruments de musique. Le téléharmonium. Paris, Gauthier-Villars, 1917. 8vo. 4 + 96 pp. Fr. 3.50
- STOHLER (H.). Mathematische Geographie und sphärische Trigonometrie. Basel, Basler Drug und Verlags-Anstalt, 1916. 8vo. 96 pp.
- TSCHAPPAT (W. H.). Text-book of ordnance and gunnery. New York, Wiley, 1917. 8vo. 10 + 705 pp. Cloth. \$6.50
- VALBREUZE (R. DE). Notions sommaires d'électrotechnique. Paris, chez l'auteur, 12, rue Pelleport, 1918. 8vo. 180 pp. Fr. 6.00