

professor of mathematics from 1865 to his retirement from active service in 1905.

DR. EMORY McCLINTOCK died July 10 at the age of seventy-six years. Dr. McClintock was the first president of the American Mathematical Society, serving in that office from 1890 to 1894. He graduated from Columbia College in 1859 and was assistant professor of mathematics at Columbia in 1859 and 1860. He was actuary of the Asbury Life Insurance Company from 1867 to 1871, and of the Northwestern Mutual Life Insurance Company from 1871 to 1888, when he became connected with the Mutual Life Insurance Company of New York, of which he was also vice-president from 1905 to his retirement in 1911. He was a frequent contributor to the *American Journal of Mathematics* and other journals, and was one of the founders of the *Transactions* of the American Mathematical Society.

FREDERICK W. FRANKLAND died in New York City on July 24, in the sixty-second year of his age. He was a Fellow of the Institute of Actuaries, and a member of the American Mathematical Society since 1893. He was for several years government examiner in mathematics and insurance in New Zealand, and was author of numerous papers on mathematical, metaphysical, and sociological subjects.

JOSIAH ROYCE, Alvord professor of philosophy at Harvard University, died September 14, 1916, at the age of sixty years.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

ABENBÉDER. See PÉREZ (J. A. S.).

BENEDICT (S. R.). A comparative study of the early treatises introducing into Europe the Hindu art of reckoning. (Diss., University of Michigan.) Concord, N. H., Rumford Press, 1916. 6+126 pp.

BIANCHI (L.). Lezioni sulla teoria delle funzioni analytiche di variabile complessa e delle funzioni ellittiche. 2a edizione. Pisa, E. Spoerri (F. Mariotti), 1916. 8vo. 685 pp. L. 25.00

CASHMORE (M.). Fermat's last theorem. London, Bell, 1916. 63 pp. 2s.

COOLIDGE (J. L.). A treatise on the circle and the sphere. Oxford, Clarendon Press, 1916. 602 pp. 21s.

GREGORY (R. A.). Discovery: or, the spirit and service of science. London, Macmillan, 1916. 10+340 pp. 5s.

- JESSOP (C. M.). *Quartic surfaces with singular points.* Cambridge, University Press, 1916. 35+197 pp. 12s.
- LEUDET (M.). See PETIT (G.).
- LÖVGREN (B. N.). *Om hela tals delbähet med hela tal.* Stockholm, A. Bonniers Verlag, 1915. 30 pp. Kr. 1.50
- MACFARLANE (A.). *Lectures on ten British mathematicians of the nineteenth century.* New York, Wiley, 1916. 8vo. 148 pp. Cloth. \$1.25
- PÉREZ (J. A. S.). *Compendio de álgebra de Abenbéder. Texto árabe, traducción y estudio.* Madrid, E. Maestre, 1916. 8vo. 48+117+78 pp. Pes. 6.
- PETIT (G.) et LEUDET (M.). *Les allemands et la science.* Paris, Alcan, 1916. 20+375 pp. Fr. 3.50
- SÖDERBLUM (A.). *Inledning till rymdens analytiska geometri.* Göttingen, Gumperts Verlag, 1915. 65 pp. Kr. 2.50
- TOGLIATTI (E. G.). *Le superficie di sesto ordine con infinite coniche.* Milano, Hoepli, 1916. 4to. 64 pp. L. 3.85
- VOLTERRA (V.). *Teoria delle potenze dei logaritmi e delle funzioni di composizione.* Roma, tip. R. Accademia dei Lincei, 1916. 4to. Pp. 167-249.
- ZORETTI (L.). *Exercices numériques et graphiques de mathématiques sur les Leçons de mathématiques générales du même auteur.* Paris, Gauthier-Villars, 1916. 8vo. 16+124 pp. Fr. 7.00

II. ELEMENTARY MATHEMATICS.

- CLAPHAM (C. B.). *Arithmetic for engineers, including simple algebra, mensuration, logarithms, graphs, and the slide rule.* London, Chapman and Hall, 1916. 11+436 pp. 5s. 6d.
- DICKNETHER (F.). *Rechenbuch für höhere Lehranstalten: 1ter Teil, 5te und 6te Auflage; 2ter Teil, 5te Auflage; 3ter Teil, 4te und 5te Auflage.* München, J. Lindauer. 120+142+160 pp. M. 1.70+1.70+1.90.
- FENKNER (H.). *Mathematisches Uebungsbuch. 2ter Teil (Pensum der Obersekunda und Prima). Ausgabe A (für Gymnasien); Ausgabe B (für Realgymnasien und Oberrealschulen).* Berlin, Salle, 1915. 363+396 pp. M. 3.40+3.60
- HUDSON (H. P.). *Ruler and compasses. (Modern Mathematical Series.)* London, Longmans, 1916. 6+143 pp. 6s.
- MAXSON (W. S.). *Fundamental number-work method; a logical, practical and systematic method for acquiring thorough knowledge of the foundation processes of fundamental number.* Yonkers, N. Y., Self-keyed Number Work Company, 1916. 220 pp. \$2.00
- MONROE (W. S.). *Report of the use of the Courtis standard research tests in arithmetic in twenty-four cities. Emporia, Kansas State Normal School, 1915. 8vo. 94 pp.*
- PENDLEBURY (C.). *Revision papers in arithmetic.* London, Bell, 1916. 15+68+18 pp. 1s.
- ROBERTSON (J. W.). *A shilling arithmetic.* London, Bell, 1916. 8+191 pp. 1s.

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- TALLANT (G. A.) and UMHOLTZ (F. H.). Common school advanced arithmetic. Chicago, Laird and Lee, 1916. 8vo. 6+384 pp. \$0.55
- UMHOLTZ (F. H.). See TALLANT (G. A.).
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III. APPLIED MATHEMATICS.

- ANNUARIO astronomico pel 1917 publicato dal r. osservatorio di Pino Torinese. Torino, tip. s. Giuseppe degli Artigianelli, 1916. 8vo. 132 pp.
- ANNUARIO publicado pelo observatorio nacional do Rio de Janeiro, 1916. Rio de Janeiro, 1916. 6+259 pp.
- BARBILLION (L.). Leçons sur le fonctionnement des groupes électrogènes en régime troublé. Paris, Gauthier-Villars, 1916. 2+306 pp. Fr. 11.00
- COMINOTTO (E.). Compasso cubico. Piacenza, tip. V. Porta, 1915. 8vo. 10 pp.
- DUHEM P.). Le système du monde. Histoire des doctrines cosmologiques de Platon à Copernic. Tomes 2-3. Paris, Hermann, 1914-1915. 522+549 pp.
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- TUCKEY (C. O.) and NAYLER (W. A.). Statics: a first course. Oxford, Clarendon Press, 1916. Cr. 8vo. 299 pp. 3s. 6d.
- VINASSA DE REGNY (P.). La conquista della forza: discorso letto per la solenne inaugurazione degli studi nella r. Università di Parma il giorno 8 novembre 1915. Parma, tip. E. Pelati, 1916. 8vo. 22 pp.
- WEREIDE (T.). Statistical theory of energy and matter. Kristiania, Gyldendalske Boghandel Nordisk Forlag, 1915. 16+170 pp.