

NOTES.

THE opening (January) number of volume 18 of the *Transactions of the American Mathematical Society* contains the following papers: "On the consistency and equivalence of certain definitions of summability," by W. A. HURWITZ and L. L. SILVERMAN; "The resolution into partial fractions of the reciprocal of an entire function of genus zero," by J. F. RITT; "On a general class of linear homogeneous differential equations of infinite order with constant coefficients," by J. F. RITT; "On the expressibility of a uniform function of several complex variables as the quotient of two functions of entire character," by T. H. GRONWALL; "Certain formal invariances in boolean algebras," by N. WIENER; "On a theory of linear differential equations in general analysis," by T. H. HILDEBRANDT; "Transformations T of conjugate systems of curves on a surface," by L. P. EISENHART.

Professor L. E. DICKSON has retired from the Editorial Committee, his unexpired term being filled by Professor L. P. EISENHART. Professors G. A. BLISS and E. B. WILSON have retired from the editorial staff and Professors C. N. MOORE and F. R. SHARPE have been appointed associate editors.

THE annual meeting of the London mathematical society was held November 2; Professor H. H. MACDONALD was elected president; the other officers were re-elected. The following papers were read at this meeting: by J. LARMOR, "Presidential address," and "Fourier harmonic analysis, its practical scope"; by W. H. YOUNG, "Multiple integration by parts and the second theorem of the mean"; by E. H. NEVILLE, "Moving axes and their uses in the differential geometry of euclidean space"; by J. H. HODGKINSON, "Areas and conformational representation."

AT the meeting held December 14 the following papers were presented: by W. BURNSIDE, "The efficiency of a surface of discontinuity regarded as a propeller"; by G. H. HARDY and S. RAMANUJAN, "Proof that almost all numbers are composed of about $\log \log N$ prime factors," and "An asymptotic formula for the number of partitions of a number"; by G. N. WATSON, "The harmonic functions associated with a parabolic

cylinder (second paper)"; by D. BUCHANAN, "Orbits asymptotic to an isosceles triangle solution of the problem of three bodies"; by H. S. CARSLAW, "Diffraction of waves by a wedge of any angle"; by L. J. ROGERS, "Two theorems of combinatory analysis, and two allied identities"; by W. H. YOUNG and Mrs. YOUNG, "The internal structure of a set of points in space of any number of dimensions" and "The inherently crystalline structure of a function of any number of variables."

AT the meeting of the Edinburgh mathematical society on January 12 the following papers were read: by W. P. MILNE: "The apolar locus of two tetrads of points"; by L. R. FORD: "A method of solving algebraic equations."

AT the annual meeting of the British mathematical association held in London on January 5 the following papers were read: by T. P. NUNN, "The school syllabus in geometry"; by A. W. SIDDON, "Some of the work of the teaching committee"; by A. N. WHITEHEAD, "Technical education and its relations to literature and science"; by A. W. SIDDON, "An accuracy test set in some public schools"; by P. ABBOTT, "The place of mathematics in education reconstruction." Professor WHITEHEAD was elected president for the current year.

UNIVERSITY OF CHICAGO.—The following mathematical courses are announced for the summer quarter, June 18–August 31:—By Professor E. H. MOORE: The spectrum of limited infinite hermitian matrix (first half), four hours; Series (first half), four hours.—By Professor H. E. SLAUGHT: Differential equations, four hours.—By Professor E. J. WILCZYNSKI: Projective differential geometry, four hours.—By Professor J. W. A. YOUNG: Solid analytics, four hours.—By Professor A. C. LUNN: Relativity, four hours; Functions of a complex variable, four hours.—By Professor D. N. LEHMER (University of California): Synthetic projective geometry, four hours.—By Professor G. D. BIRKHOFF (Harvard University): Ordinary differential equations of the second order, four hours.

THE firm of G. E. Stechert and Company expect soon to have on sale a photographic reprint of the third edition of the

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.