

## NOTES

The concluding number of volume 30 of the Transactions of this Society (October, 1928) contains the following papers: *Some non-linear problems in approximation*, by D. Jackson; *Second-order differential systems with integral and  $k$ -point boundary conditions*, by W. M. Whyburn; *Analytic functions of hypercomplex variables*, by P. W. Ketchum; *Concerning limiting sets in abstract spaces*, by R. G. Lubben; *Riesz summability for double series*, by F. M. Mears; *The inverse problem of the calculus of variations in higher space*, by D. R. Davis; *Types of motion of the gyroscope*, by A. H. Copeland; *The invariant integral and the inverse problem in the calculus of variations*, by T. H. Rawles; *The projective differential geometry of systems of linear homogeneous differential equations of the first order*, by E. P. Lane; *The behavior of a boundary value problem as the interval becomes infinite*, by W. E. Milne; *The second derivative of a polygenic function*, by E. Kasner; *Diophantine equations in division algebras*, by R. G. Archibald; *On the degree of approximation to an analytic function by means of rational functions*, by J. L. Walsh; *Existence and oscillation theorems for non-linear differential systems of the second order*, by W. M. Whyburn. The Index of volumes 21–30 (1920–28) is bound with this number.

The concluding number of volume 50 of the American Journal of Mathematics (October, 1928) contains: *Affinely connected function space manifolds*, by A. D. Michal; *A theorem concerning the affine connection*, by T. Y. Thomas; *Concerning subsets of a continuous curve which can be connected through the complement of the continuous curve*, by W. L. Ayres; *Admissible numbers in the theory of probability*, by A. H. Copeland; *The differential invariants of inversive geometry*, by B. C. Patterson; *Expansions of the Neumann type in terms of products of Bessel functions*, by G. Stevenson; *Canonical forms for ordinary homogeneous linear differential equations of the second order with periodic coefficients*, by E. Swift; *Periodic orbits of three finite masses about the equilateral triangle points*, by H. E. Buchanan; *The problem of plane involutions of order  $t > 2$* , by F. R. Sharpe. A portrait of Goursat is bound with this number.

Professor G. D. Birkhoff of Harvard University delivered a lecture on *The mathematical basis of art* at the Ohio State University on December 3, 1928.

Professor E. R. Hedrick, Editor-in-Chief of this Bulletin, visited and lectured at the following institutions during November and December, 1928: University of Missouri, November 26; Ohio State University, November 27–28; University of Cincinnati, November 30–December 3; University of Kentucky, December 4; Oberlin College, December 5–6; University of Michigan, December 7; University of Wisconsin, December 10; Northwestern University, December 11; University of Indiana, De-