

## SCIENTIFIC JOURNALS AND ARTICLES

THE opening (January) number of volume 12 of the *Transactions of the American Mathematical Society* contains the following papers:

L. E. Dickson: "An invariantive investigation of irreducible binary modular forms."

W. H. Bates: "An application of symbolic methods to the treatment of mean curvatures in hyperspace."

H. F. Blichfeldt: "On the order of linear homogeneous groups (fourth paper)."

J. L. Coolidge: "The metrical aspect of the line-sphere transformation."

Edward Kasner: "Natural systems of trajectories generating families of Lamé."

L. E. Dickson: "A fundamental system of invariants of the general modular linear group with a solution of the form problem."

R. D. Carmichael: "Linear difference equations and their analytic solutions."

THE February number (volume 17, number 5) of the *Bulletin of the American Mathematical Society* contains: Report of the fourth regular meeting of the Southwestern Section of the society, by O. D. Kellogg; Report on "University courses in mathematics and the master's degree," by the American sub-committee of the International Commission on the Teaching of Mathematics; Review of Doehlemann's *Geometrische Transformationen*, zweiter Teil, by Virgil Snyder; Shorter Notices: Sylvester's Collected Papers, Vol. III., and Bachmann's *Niedere Zahlentheorie*, zweiter Teil, by L. E. Dickson; Burali-Forti and Marcolongo's *Eléments de Calcul vectoriel*, by E. B. Wilson; Lebon's *Gaston Darboux*, by J. W. Young; Killing and Hovestadt's *Handbuch des mathematischen Unterrichts*, by D. D. Leib; Amodeo's *Analisi algebrica elementare*, by C. L. E. Moore; Rietz and Crathorne's *College Algebra*, by J. V. McKelvey; Planck's *Prinzip der Erhaltung der Energie*, second edition, by E. B. Wilson. "Notes"; "New Publications."

THE March number of the *Bulletin* contains: Report of the seventeenth annual meeting of the society, by F. N. Cole; Report of the winter meeting of the Chicago Section, by H. E. Slaught; Report on "Preparation

for research and the doctor's degree in mathematics," by the sub-committee of the International Commission on the Teaching of Mathematics; Shorter Notices: Frankland's *Theories of Parallelism*, by D. E. Smith; Vogt's *Synthetische Theorie der Cliffordschen Parallelen*, by E. B. Cowley; Bruns's *Gruppenschema für zufällige Ereignisse*, by H. L. Rietz; W. W. Johnson's *Elementary Treatise on the Differential Calculus*, by E. W. Ponzer; Becker and Van Orstrand's *Hyperbolic Functions*, Fabry's *Problèmes et Exercices de Mathématiques générales*, and Couturat's *Internacione matematikal Lexiko en Ido*, by J. B. Shaw; Richarz's *Anfangsgründe der Maxwellschen Theorie*, by E. B. Wilson. "Notes"; "New Publications."

THE FIFTH ANNUAL REPORT OF THE  
PRESIDENT OF THE CARNEGIE  
FOUNDATION

PRESIDENT PRITCHETT's annual report gives a full and clear statement of the business of the Carnegie Foundation for the Advancement of Teaching during the year ending November 30, 1910, and includes an essay on the relations of colleges and secondary schools.

The University of California, Indiana and Purdue Universities, and Wesleyan University have been added to the accepted list of the foundation. The two state universities—for Indiana and Purdue form together essentially one state university—obviously meet standards which allow the admission of colleges such as Beloit, Carleton, Coe, Dickinson, Drake, Drury and Knox. The tax-supported universities previously admitted are Michigan, Wisconsin, Minnesota, Missouri and Toronto. It seems to the present writer most unfortunate that the executive committee of the foundation should prescribe to the state universities what they must do in order to receive pensions. Illinois has been told that it must break the agreement which it made with the professors of the medical school in Chicago; Ohio that it must reconstruct its educational policy, and the like. It is to be hoped that those in control of the state universities will resent such dictation. Indeed one can not altogether dismiss the suspicion that the