

AT the University of Illinois the following changes are announced: Dr. R. K. MORLEY, of the Worcester Polytechnic Institute, has been appointed instructor in mathematics; Mr. E. B. STOFFER and Mr. S. A. RAWLIN have been appointed assistants in mathematics. Dr. THOMAS BUCK has been appointed instructor in mathematics at the University of California.

MR. R. E. ROOT, of the University of Chicago, has been appointed instructor in mathematics at the University of Missouri.

DR. H. H. MITCHELL, of Yale University, has accepted an instructorship in mathematics at the University of Pennsylvania.

DR. FRANK IRWIN, of Princeton University, has been appointed instructor in mathematics in the University of California.

AT Columbia University Professor C. B. UPTON has been appointed secretary of Teachers College. Mr. L. L. DINES and Mr. G. H. GRAVES have been appointed instructors in mathematics.

PROFESSOR R. BONOLA, of the normal school at Rome, died May 16 at the age of 36 years.

## NEW PUBLICATIONS.

### I. HIGHER MATHEMATICS.

- ASHTON (C. H.). Die Heineschen O-Funktionen und ihre Anwendungen auf die elliptischen Funktionen. (Diss.) München, 1909. 8vo. 62 pp.
- BAKER (A. L.). Quaternions as the result of algebraic operations. New York, Van Nostrand, 1911. 12mo. 100 pp. \$1.25
- BAKER (R. P.). Problem of the angle-bisectors. Chicago, University of Chicago, 1911. 4to. 104 pp. \$1.00
- BALL (W. W. R.). Ricerazioni e problemi matematici dei tempi antichi e moderni. Bologna, Zanichelli, 1911. 8vo. 2+398 pp. L. 10.00
- BRÜES (M.). Zur Theorie der desmischen Flächen vierter Ordnung. (Diss.) Bonn, 1910. 8vo. 48 pp.
- CARLEBACH (J.). Lewi ben Gerson als Mathematiker. Ein Beitrag zur Geschichte der Mathematik bei den Juden. Berlin, Lamm, 1910. 8vo. 239 pp. Cloth. M. 6.00