

chanics; Mr. H. R. WILLARD, instructor in mathematics; Mr. R. K. MORLEY, tutor in mathematics.

AT Oberlin College, Professor F. ANDEREGG has returned after a year's absence abroad; Mr. W. D. CAIRNS has been promoted to an associate professorship of mathematics; and Mr. J. R. LUCKEY has been appointed assistant in mathematics and physics.

MR. E. D. GRANT, instructor in mathematics at the Michigan College of Mines, has been promoted to an associate professorship.

DR. K. SCHMIDT has been appointed professor of mathematics and astronomy at the newly organized University of Florida, at Lake City, Florida.

THE College entrance examination board of the middle states and Maryland has reappointed the examiners in mathematics who served in 1904, namely Professor F. N. COLE, Professor T. C. ESTY, and Dr. ARTHUR SCHULTZE.

PROFESSOR H. KORTUM, of the University of Bonn, died September 24, at the age of 68 years. Professor G. LILLEY, of the University of Oregon, died June 8, aged 68 years. Professor K. EDLER VON OTT, of the German technical school at Prague, died August 23, at the age of 69 years.

RECENT catalogues of second-hand mathematical works: Librairie H. Welter, rue Bernard-Palissy 4, Paris, clearance sale of mathematical and physical works, about 1,200 titles; A. Buchholz, Ludwigstrasse 7, Munich, Antiquariats-Katalog 41, 296 titles in mathematics; Jacques Rosenthal, Karlstrasse 10, Munich, Katalog 26, 377 titles in mathematics; H. Lüneburg, Karlstrasse 4, Munich, Antiquariats-Katalog 54, Mathematik, 1,165 titles.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

BOLZA (O.). Lectures on the calculus of variations. Chicago, University of Chicago Press, 1904. 8vo. 16 + 271 pp. Cloth. \$4.00