

NOTES.

UNIVERSITY OF BERLIN. During the coming winter semester the following mathematical courses will be offered: By Professor FUCHS: Theory of the partial differential equations; Theory of hyperelliptic functions. By Professor SCHWARZ: Integral calculus; Selected chapters from theory of analytical functions; Theory of elliptic functions; Mathematical colloquium. Professor FROBENIUS: Analytical geometry; Theory of numbers. Professor HELMERT: Method of least squares. Professor HETTNER: Calculus of probabilities and theory of errors. Professor KNOBLAUCH: Differential calculus; Theory of partial differential equations with application to theory of surfaces and mechanics; Exercises in differential calculus. Professor HENSEL: Algebra; Theory of algebraic functions of one variable and Abelian integrals; Analytical introduction to the theory of Abelian integrals. Professor LEHMANN-FILHÉS: Problem of three bodies; Method of least squares. DR. HOPPE: Analytical geometry (by text-book); Differential calculus and series (by text-book).

AMONG B. G. Teubner's recent announcements of forthcoming books the most important is that of the "Encyclopädie der mathematischen Wissenschaften, mit Einschluss der Anwendungen" (see BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY, 2d Series, Vol. 3, p. 356), edited, with the aid of the academies of sciences of Munich, Vienna, and Göttingen, by Professors H. BURKHARDT and W. F. MEYER. The object of this work is to give, in a form at once concise and convenient for reference, but with the greatest possible completeness, a comprehensive presentation of the mathematical sciences in their present *results*, and at the same time, by means of careful references, an historical survey of the development of mathematical *methods* since the beginning of the 19th century. The applications to mechanics, physics, astronomy, geodesy, the engineering sciences will be included so that, on the one hand, the mathematician may readily see what questions are put to him by the applied sciences, while, on the other, the astronomer, the physicist, the engineer will be able to find the answer given by mathematics to his questions. The arrangement of the matter will be by subjects in the first five volumes; the sixth and last will provide an exhaustive alphabetical index. The editors will be assisted by a com-