

SHORTER NOTICES.

Index operum Leonardi Euleri, confectus a IOANNE G. HAGEN, S. J., Directore speculæ astronomicæ Collegii Georgiopolitani, Washington, D. C. Berolini, Dames, 1896. 8vo. viii+80 pp.

This bibliography of Euler's works contains nearly 800 titles, distributed in four main groups: mathematical, physical, astronomical and miscellaneous. Each group is again subdivided by subjects. The titles are derived from previous bibliographies, but have been carefully collated and corrected. In an appendix we find the titles of some unpublished papers, of some that seem to be lost, and of some that have been erroneously attributed to Euler. The author undertook this work in the hope that it may serve as basis for a complete edition of Euler's works. It is estimated that this would require 25 quarto volumes, of 640 pages each, and that the expense per volume would be about \$1,500. There can be no doubt that such an edition would be very valuable. It is, therefore, to be hoped that the learned author of the "Synopsis der höheren Mathematik" may succeed in securing the financial means for this gigantic undertaking.

ALEXANDER ZIWET.

Briot and Bouquet's Elements of Analytical Geometry of Two Dimensions. Fourteenth Edition. Translated and edited by JAMES HARRINGTON BOYD, Instructor in Mathematics in the University of Chicago. Chicago and New York, Werner School Book Company, [1896]. 8vo. iii+581 pp.

The "Leçons de Géométrie Analytique" of Briot and Bouquet has been long recognized as one of the most successful text-books ever written. The fourteenth edition of the work, which was revised and annotated by Professor Appell, was described in the first volume of the BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY by Dr. C. H. Chapman under the title, "A French Analytical Geometry." The desirability of an English translation has been so often commented upon that it is surprising that we have had to wait for one until now. The translation, which seems to be fairly good, gives only that part of the original which relates to plane geometry, or somewhat more than two-thirds of the whole work. The translator nowhere gives the name of the French editor or refers to the fact that the translation represents but a part of the French work from which it is taken.

THOMAS S. FISKE.