

I cannot close these remarks without expressing a bit of scepticism upon one point. The preface begins with these words: "The present treatise is intended as an aid to the study of geometry in school as well as at the university." It does not seem possible to me, even with the most generous concessions as to the superior abilities of the German schoolboy, to think of Hesse's book as a text for a beginner in analytic geometry. To be sure it requires no prerequisites other than those which the beginner in this subject is likely to have, but it does require a mathematician of some maturity to read it appreciatively. Certainly the contrast between this book and our present-day textbooks for beginners is great.

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*A Bibliography of the Works of Sir Isaac Newton Together with a List of Books illustrating his Works, with Notes*, by GEORGE J. GRAY. Cambridge, Bowes and Bowes, 1907. 8vo. viii + 80 pp. 1 plate. Second edition, revised and enlarged.

It is now some twenty years since Mr. Gray issued the first edition of this work, but as only a hundred and twenty copies were then printed it was never generally known to scholars, save by name. In a way this has not been without its good results, since the very fact of its rarity has led to the preparation of this new and enlarged edition, containing information now published for the first time.

The work contains four hundred and twelve titles arranged under ten heads: Collected editions of works, the *Principia*, Optics and optical lectures, Fluxions, *Arithmetica universalis*, Minor works, Chronological, theological and miscellaneous works, Reports on coinage, Works edited by Newton, Memoirs. The bibliography is preceded by an analytic table of contents, and followed by an index of names. There is also a reproduction of Mackensie's drawing of Roubiliac's statue in Trinity College, from Le Keux's engraving.

Only one who has worked in the bibliography of mathematics can appreciate fully the extent of Mr. Gray's labors and sympathize with his errors and omissions. Such a work is easily conceived and can be pursued with little difficulty to a vaguely defined point, after which titles and editions become exceedingly elusive. It is like collecting portraits of Newton; the first fifty can be found with little trouble; the second fifty