

monotonous and of the stereotyped character, such as the falling body, oscillation in a resisting medium; a greater variety of illustrations would doubtless make the book more attractive to the non-mathematical reader for whom it is chiefly intended.

It is an interesting fact that the need for books of this type is becoming more and more clearly recognized; it seems to be a part of the movement for the popularization of the principal results of the sciences; how far this can be carried in the case of mathematics seems doubtful, because mathematics is and must remain, as soon as we pass beyond the elementary stages, a highly theoretical subject, which does not lend itself to popularization. Quite a different thing it is of course to present some topic in mathematics in such a way as to make it available to those who have had at least some preparation; such as for instance giving undergraduate students an idea of what lies beyond or below, as has been done in J. W. A. Young's *Monographs on Modern Mathematics* and in J. W. Young's *Fundamental Concepts of Algebra and Geometry*; or again, to give to students of physics and chemistry a knowledge of those parts of mathematics that are essential to a full understanding of their own subjects. It is as a contribution to those fields that Professor Love's book is perhaps most valuable, taking its place by the side of such books as Nernst und Schoenflies's *Mathematische Behandlung der Naturwissenschaften*.

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NOTES.

THE March number (volume 14, number 3) of the *Annals of Mathematics* contains the following papers: "Groups which contain an abelian subgroup of prime index," by G. A. MILLER; "On infinite systems of linear integral equations," by L. BRAND; "The method of monodromie with applications to three-parameter quartic equations," by R. P. BAKER; "Note on the existence theorem of a minimum of $\int_{xy}^{x'y'} Pdx + Qdy$," by E. SWIFT; "Continuant expressions for $\sqrt{a^2 + b^2}$ and $(\sqrt{a^2 + b^2} + a)^n$," by L. H. RICE.