

*An Introduction to the Theory of Infinite Series.* By T. J. I'A. Bromwich. Second edition, revised with the assistance of T. M. MacRobert. London, Macmillan and Company, 1926. xv+535 pp.

The first edition of this book, which appeared in 1908, has been of great use to mathematicians and students of mathematics having a direct or indirect interest in the field of infinite series. No more comprehensive account of the fundamental results in this field could be found elsewhere between two covers, and yet the work throughout was very readable and involved no undue demands in the way of prerequisite mathematical knowledge. During nearly twenty years it has remained a standard text and reference work in the subject, and the only work of its type in English.

In view of these characteristics of the first edition, it was rather to be expected that a second edition would in the main involve no very sweeping changes and no extensive rewriting. The one topic, namely summable divergent series, where the rapid development of the subject since the first printing would have necessitated considerable alteration of the text, has been omitted in the present edition, save for a brief account of its historical origin. The reviewer is inclined to regret this omission and to feel that the justification offered in the preface, lack of space, is not entirely adequate. No great addition to the number of pages in the book would have been required in order to bring up to date such topics in the field of summable series as were treated in the first edition. While these topics have a much smaller ratio to the total available literature than in 1908, yet they are fundamental and constitute a good introduction to the subject.

Among the new topics introduced in the present edition may be found discussions of quasi-uniform convergence, existence theorems regarding solutions of linear differential equations, the asymptotic development of Bessel's functions, trigonometric series including Gibbs' phenomenon, and an account of Napier's invention of logarithms. These additions are all well justified on the ground of their fundamental importance and add to the value of the book. There is every reason to believe that the second edition will prove as useful during the next two decades as the first edition has during the past two.

C. N. MOORE

*Einführung in die konforme Abbildung.* By Ludwig Bieberbach. Second edition. Sammlung Göschen. Berlin, Walter de Gruyter, 1927. 130 pp.

In this little pocket volume, the author presents, in a thorough and painstaking manner, the fundamentals of the principal topics which arise in the theory of the conformal representation of one region of the complex plane on another through the use of analytic functions of a complex variable. The style is lucid and clear and the material well arranged. In so small a space, a surprisingly large amount of material has been presented. The pedagogical excellence of the book is particularly to be commended. It is an excellent text in its subject.

C. H. SISAM