denoted by $\boldsymbol{U} S$; the $\boldsymbol{U}$, presumably, stands for Untermenge.) Just as in the earlier edition, each section concludes with a useful collection of exercises.

A novel and laudable feature is the bibliography. This impressive list covers 137 pages; it is practically a separate publication in the same binding. (Possibly the publishers intend to make the bibliography and the main text available separately. The pages of the bibliography bear two numbers-one in continuation of the number system of the text and one independent of it.)

Readers not acquainted with Einleitung may gain an idea of the contents of the present book from the titles of its eleven sections; they are as follows. 1. Concept of set. Examples of sets. 2. The fundamental concepts. Finite and infinite. 3. Denumerable sets. 4. The Continuum. Transfinite cardinal numbers. 5. Ordering of cardinals. 6. Addition and multiplication of sets and cardinals. 7. Exponentiation of cardinals. The problem of infinitesimals. 8. Ordered sets. Similarity and order-types. 9. Linear sets of points. 10. General theory of well-ordered sets. Finite sets. 11. Ordinals and alephs. The well-ordering theorem.

Paul R. Halmos

Introduction to the theory of functions of a complex variable. By W. J. Thron. New York, Wiley, 1953. $10+230 \mathrm{pp} . \$ 6.50$.

Here at last is a rigorous book on complex variables in the English language. There has long been a need for such a text and the author set for himself the task of filling this gap, and without doubt he has succeeded to a remarkable degree. The book is written in the SatzBeweis style of Edmund Landau, each item being carefully labeled: Axiom, Theorem, Proof, Remark, etc., and in the reviewer's opinion this is of course the only possible style, where a rigorous exposition is the object in view. The book is divided into 31 short sections, instead of the more conventional longer chapters, and these shorter sections induce in the reader a comfortable feeling that not too much sustained effort will be required to read the book.

As every young instructor learns when he first strides into a class room resolved to make everything crystal clear to his pupils, the number system must first be put on a solid foundation, and this is not easy. Thron comes directly to grips with problem, and the allied problem of the foundations of geometry, and the first fourteen sections (more than one-third of the book) are devoted to these and related topics, and lie outside the domain proper of the theory of functions of a complex variable. These section headings are as follows:

