

The purpose of this booklet is to facilitate the comparison of various popular approaches to axiomatic set theory. In 27 pages the authors describe Cantor's "naive" set theory, the theory of types, Zermelo's axiom system and Fraenkel's modification of it, the von Neumann-Bernays axiom system, and the two systems (*New foundations and mathematical logic*) presented by Quine, and give a brief discussion of some of the pertinent problems of relative consistency. It is not surprising that the style of presentation is somewhat breathless. Its very conciseness, however, makes the book useful; students of the subject will appreciate the bird's-eye-view that the authors provide. The book concludes with a bibliography and several useful indexes. The bibliography is long enough to contain most of the helpful references but not so long as to be discouraging. (The order of the items is slightly bewildering; it appears to be roughly chronological.) The authors, and Mme. Destouches-Fevrier, the editor of the series, are to be congratulated on having produced a valuable addition to the library of every student (and teacher) of axiomatic set theory.

PAUL R. HALMOS

*Topologie*. Vol. 2. By C. Kuratowski. (Monografie Matematyczne, vol. 21.) 2d ed. Warsaw, Polish Mathematical Society, 1952. 8+444 pp. \$6.00.

The first edition (1950) was reviewed in this Bulletin, vol. 58, p. 265; the second edition apparently differs only by the correction of some errors.

*Recherches arithmétiques*. By Ch.-Fr. Gauss. Trans. by A.-C.-M. Pouillet-Delisle. Paris, Blanchard, 1953. 22+502 pp.

This is a facsimile of the 1807 translation of *Disquisitiones Arithmeticae*.

*Table of arctan x*. (National Bureau of Standards Applied Mathematics Series, vol. 26.) Washington, Government Printing Office, 1953. 14+170 pp. \$1.75.

This is a reissue of Table 16 of the New York Mathematical Tables Project (1942), reviewed in this Bulletin vol. 49, p. 531.

*A survey of modern algebra*. By G. Birkhoff and S. MacLane. Rev. ed. New York, Macmillan, 1953. 12+472 pp. \$6.50.

The first edition (1941) was reviewed in this Bulletin vol. 48,