

---

**The Development of Mathematical Logic.** *R. L. Goodstein.* Springer-Verlag, New York, New York. 1971. vii+150 p. \$10.00.

This is not a history of logic, even of twentieth-century logic. Any historical information is confined to an occasional sentence randomly distributed in the text. The book is, in fact, a short presentation of an axiomatic treatment of modern logic. It deals, as do most texts, with the propositional and predicate calculi, and then goes on to present recursive functions and Gödel's incompleteness theorem. It ends with a nice treatment of primitive recursive arithmetic and the Zermelo-Fraenkel axioms for set theory.

The style of the book is readable, but very condensed. It is not suitable for the beginner or even for the intermediate-level student of logic. The book could be most useful to a mathematically trained person who wants a clear and succinct review of modern logic. It provides exercises, and might with supplementary material be used as a text. The book is unusual in that it treats intuitionist systems of logic.

PETER K. MACHAMER