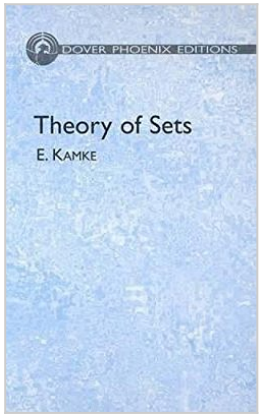

Theory of Sets (Dover Books on Mathematics)

By E. Kamke, Mathematics

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Clear and simple, this introduction to the theory of sets employs the discoveries of Cantor, Russell, Weierstrass, Zermelo, Bernstein, Dedekind, and other mathematicians. It analyzes concepts and principles, offering numerous examples. An emphasis on fundamentals makes the presentation easily comprehensible to students acquainted with college-level algebra.
Starting with the rudiments of set theory--including first classifications, subsets, sums, intersection of sets, and nonenumerable sets--the text advances to arbitrary sets and their cardinal numbers, exploring extensions of number concepts, equivalence of sets, and sums and products of two and many cardinal numbers. Additional topics include ordered sets and their order types and well-ordered sets and their ordinal numbers. Particular focus is placed upon addition and multiplication of ordinal numbers, transfinite induction, products and powers of ordinal numbers, well-ordering theorem, and the well-ordering of cardinal and ordinal numbers.

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