

Set Theory And Logic Dover Books On Mathematics

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Set Theory - Introduction

A Book on Logic and Mathematical Proofs ~~Set Theory And Logic Dover~~

This is an ideal painless introduction to standard logic and set theory for anyone with a couple of years of undergraduate pure mathematics background. This 1963 book by Robert Roth Stoll is more than twice as big as the author's 1961 "Sets, Logic and Axiomatic Theories", which it is an expansion of. The 1961 book was already very good, but this greatly expanded 1963 edition is much more comprehensive, and still very beginner-friendly, not one of those macho books which inflict the maximum ...

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Set Theory and Logic is the result of a course of lectures for advanced undergraduates, developed at Oberlin College for the purpose of introducing students to the conceptual foundations of mathematics. Mathematics, specifically the real number system, is approached as a unity whose operations can be logically ordered through axioms.

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~~Set Theory and Logic—Dover Publications~~

A Book of Abstract Algebra (Dover Books on Mathematics) by Charles C. Pinter Paperback £10.68. In stock. Sent from and sold by Amazon. Set Theory and Logic (Dover Books on Mathematics) by Robert R. Stoll Paperback £15.73. Only 3 left in stock.

~~A Book of Set Theory (Dover Books on Mathematics): Amazon ...~~

The treatment of Goedel's definitional model of set theory and Cohen's technique of forcing are the clearest I have come across, although the treatment of forcing is unusual in that forcing conditions are treated as part of the semantics of a modal logic, called S4, rather than being treated as a Boolean logic or as distinct forcing semantics.

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Synopsis Focusing on Cantor's quest to determine how many points are in a line, Tiles (philosophy, University of Hawaii) explains the theory of Aristotelian logic and finite permutations and combinations, the principles of generation for ordinal numbers, the axiomatic approach to set theory, Fregean classes, and Russell's logicist reduction.

~~The Philosophy of Set Theory: An (Dover Books on ...~~

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One consequence of presenting elementary set theorems before presenting set theory axioms is that some of Stoll's theorem's precede the axioms which they are based on. For example, theorems 4.4 and 4.5 on pages 91-93 use the countable axiom of choice, which is not introduced until pages 111-118 informally, and on page 302 formally.

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Set Theory and Logic is the result of a course of lectures for advanced undergraduates, developed at Oberlin College for Set Theory and Logic (Dover Books on Mathematics) - College Learners Mathematics, specifically the real number system, is approached as a unity whose operations can be logically ordered through axioms.

~~Set Theory and Logic (Dover Books on Mathematics ...~~

Set theory is a branch of mathematical logic that studies sets, which informally are collections of objects. Although any type of object can be collected into a set, set theory is applied most often to objects that are relevant to mathematics. The language of set theory can be used to define nearly all mathematical objects.

~~Set Theory And Logic—ModApkTown~~

About this Item: Dover Publications Inc., United States, 1979. Paperback. Condition: New. New edition. Language: English. Brand new Book. Set Theory and Logic is the result of a course of lectures for advanced undergraduates, developed at Oberlin College for the purpose of introducing students to the conceptual foundations of mathematics.

Explores sets and relations, the natural number sequence and its generalization, extension of natural numbers to real numbers, logic, informal axiomatic mathematics, Boolean algebras, informal axiomatic set theory, several algebraic theories, and 1st-order theories.

This exploration of a notorious mathematical problem is the work of the man who discovered the solution. Written by an award-winning professor at Stanford University, it employs intuitive explanations as well as detailed mathematical proofs in a self-contained treatment. This unique text and reference is suitable for students and professionals. 1966 edition. Copyright renewed 1994.

Geared toward upper-level undergraduates and graduate students, this treatment examines the basic paradoxes and history of set theory and advanced topics such as relations and functions, equipollence, more. 1960 edition.

Introductory treatment emphasizes fundamentals, covering rudiments; arbitrary sets and their cardinal numbers; ordered sets and their ordered types; and well-ordered sets and their ordinal numbers. "Exceptionally well written." ? School Science and Mathematics.

Part I of this coherent, well-organized text deals with formal principles of inference and definition. Part II explores elementary intuitive set theory, with separate chapters on sets, relations, and functions. Ideal for undergraduates.

Beginning with perspectives on the finite universe and classes and Aristotelian logic, the author examines permutations, combinations, and infinite cardinalities; numbering the continuum; Cantor's transfinite paradise; axiomatic set theory, and more. /div

This comprehensive overview of mathematical logic is designed primarily for advanced undergraduates and graduate students of mathematics. The treatment also contains much of interest to advanced students in computer science and philosophy. Topics include propositional logic; first-order languages and logic; incompleteness, undecidability, and indefinability; recursive functions; computability; and Hilbert's Tenth Problem. Reprint of the PWS Publishing Company, Boston, 1995 edition.

This text introduces topos theory, a development in category theory that unites important but

seemingly diverse notions from algebraic geometry, set theory, and intuitionistic logic. Topics include local set theories, fundamental properties of toposes, sheaves, local-valued sets, and natural and real numbers in local set theories. 1988 edition.

Set Theory and the Continuum Problem is a novel introduction to set theory, including axiomatic development, consistency, and independence results. It is self-contained and covers all the set theory that a mathematician should know. Part I introduces set theory, including basic axioms, development of the natural number system, Zorn's Lemma and other maximal principles. Part II proves the consistency of the continuum hypothesis and the axiom of choice, with material on collapsing mappings, model-theoretic results, and constructible sets. Part III presents a version of Cohen's proofs of the independence of the continuum hypothesis and the axiom of choice. It also presents, for the first time in a textbook, the double induction and superinduction principles, and Cowen's theorem. The book will interest students and researchers in logic and set theory.

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