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classical Greece with the influential work of the philosopher Aristotle and a group of philosophers known as the Stoics, but the developments significant to this course are more recent beginning in the nineteenth century.<sup>3</sup>

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First-order logic has symbols for functions of any number of variables. If  $f$  is a function of one, two, or three variables, then it is called unary, binary, or ternary, respectively. In general, a function of  $n$  variables is called  $n$ -ary and  $n$  is referred to as the arity of the function.

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## Logic

A First Course in Mathematical Logic and Set Theory [Book]

A First Course in Logic: An Introduction to Model Theory, Proof Theory, Computability, and Complexity (Oxford Texts in Logic) Illustrated Edition by Shawn Hedman (Author)

Amazon.com: A First Course in Logic: An Introduction to ...

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Extensive coverage of the basics of classical

logic Extremely clear, thorough and

accurate Ideal textbook for a first or

refresher course Contains numerous

exercises Aimed at a broad audience from

logic of computer science through

mathematics, logic and philosophy.

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A First Course in Logic is an introduction to first-order logic suitable for first and second year mathematicians and computer scientists. There are three components to this course: propositional logic; Boolean algebras; and predicate/first-order, logic.

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A First Course in Logic by K. Codell  
Carter

This first text in logic offers a unified presentation, showing relationships among topics and chapters by revisiting key examples and exercises. Exercises similar to those found on the Law School Admission Test (LSAT) are included.

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"The ability to reason and think in a logical manner forms the basis of learning for most mathematics, computer science, philosophy and logic students. Based on the author's teaching notes at the University of Maryland and aimed at a broad audience, this text covers the fundamental topics in classical logic in a clear, thorough and accurate style that is accessible to all the above. Covering propositional logic, first-order logic, and second-order logic, as well as proof theory, computability theory, and model theory, the text also contains numerous carefully graded exercises and is ideal for a first or refresher course."--BOOK JACKET.

A First Course in Logic is an introduction to first-order logic suitable for first and second year mathematicians and computer scientists. There are three components to this course: propositional logic; Boolean

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algebras; and predicate/first-order, logic. Logic is the basis of proofs in mathematics — how do we know what we say is true? — and also of computer science — how do I know this program will do what I think it will? Surprisingly little mathematics is needed to learn and understand logic (this course doesn't involve any calculus). The real mathematical prerequisite is an ability to manipulate symbols: in other words, basic algebra. Anyone who can write programs should have this ability.

Providing students with a more understandable introduction to logic without sacrificing rigor, *A First Course in Logic* presents topics and methods in a highly accessible and integrated manner. By integrating and comparing topics throughout and using the same examples in different chapters, the author shows the

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utility and limitations of each method of logic. Consistent pedagogical structure helps students learn and study better; the introduction now emphasizes strategies and tactics for applying memorization rules. One-of-a-kind LSAT-type exercises apply logic to pre-professional exams. This Gold Edition of the text now uses more standard notation and has been thoroughly class-tested and revised for absolute accuracy of information.

A mathematical introduction to the theory and applications of logic and set theory with an emphasis on writing proofs  
Highlighting the applications and notations of basic mathematical concepts within the framework of logic and set theory, A First Course in Mathematical Logic and Set Theory introduces how logic is used to prepare and structure proofs and solve more complex problems.

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The book begins with propositional logic, including two-column proofs and truth table applications, followed by first-order logic, which provides the structure for writing mathematical proofs. Set theory is then introduced and serves as the basis for defining relations, functions, numbers, mathematical induction, ordinals, and cardinals. The book concludes with a primer on basic model theory with applications to abstract algebra. A First Course in Mathematical Logic and Set Theory also includes: Section exercises designed to show the interactions between topics and reinforce the presented ideas and concepts Numerous examples that illustrate theorems and employ basic concepts such as Euclid's lemma, the Fibonacci sequence, and unique factorization Coverage of important theorems including the well-ordering theorem, completeness theorem,

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compactness theorem, as well as the  
theorems of Löwenheim – Skolem, Burali-  
Forti, Hartogs,  
Cantor – Schröder – Bernstein, and

König An excellent textbook for students  
studying the foundations of mathematics  
and mathematical proofs, A First Course  
in Mathematical Logic and Set Theory is  
also appropriate for readers preparing for  
careers in mathematics education or  
computer science. In addition, the book is  
ideal for introductory courses on  
mathematical logic and/or set theory and  
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Numerous exercises; some solutions. 1969  
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Rigorous introduction is simple enough in  
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students. Symbolizing sentences; logical  
inference; truth and validity; truth tables;  
terms, predicates, universal quantifiers;  
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A First Course in Fuzzy Logic, Third  
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of fuzzy logic. This best-selling text  
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fuzzy sets - a topic that has received much attention in the past few years Additional material on copulas and t-norms More discussions on generalized modus ponens and the compositional rule of inference Complete revision to the chapter on possibility theory Significant expansion of the chapter on fuzzy integrals Many new exercises With its comprehensive updates, this new edition presents all the background necessary for students and professionals to begin using fuzzy logic in its many-and rapidly growing- applications in computer science, mathematics, statistics, and engineering.

A rigorous yet accessible and engaging introduction to symbolic logic that covers all the standard topics and guides students with helpful suggestions for finding solutions to problems of proof using the methods of deductive logic.

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"Many students ask, 'What is the point of learning formal logic?' This book gives them the answer. Using the methods of deductive logic, Nelson Lande introduces each new element in exquisite detail, as he takes students through example after example, proof after proof, explaining the thinking behind each concept. Shaded areas and appendices throughout the book provide explanations and justifications that go beyond the main text, challenging those students who wish to delve deeper, and giving instructors the option of confining their course to the basics, or expanding it, when they wish, to more rigorous levels. Lande encourages students to think for themselves, while at the same time providing them with the level of explanation they need to succeed. It is a rigorous approach presented in a style that is informal, engaging, and accessible.

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Students will come away with a solid understanding of formal logic and why it is not only important, but also interesting and sometimes even fun. It is a text that brings the human element back into the teaching of logic." --Hans Halvorson, Princeton University

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.

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