

Mordechai Ben Ari

# Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

# Mathematical Logic for Computer Science

Third Edition



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**Mathematical Logic and Theoretical Computer Science** David Kueker, 2020-12-22 Mathematical Logic and Theoretical Computer Science covers various topics ranging from recursion theory to Zariski topoi Leading international authorities discuss selected topics in a number of areas including denotational semanites receuriosn theoretic aspects fo

computer science model theory and algebra Automath and automated reasoning stability theory topoi and mathematics and topoi and logic The most up to date review available in its field Mathematical Logic and Theoretical Computer Science will be of interest to mathematical logicians computer scientists algebraists algebraic geometers differential geometers differential topologists and graduate students in mathematics and computer science Essential Logic for Computer Science Rex Page, Ruben Gamboa, 2019-01-08 An introduction to applying predicate logic to testing and verification of software and digital circuits that focuses on applications rather than theory Computer scientists use logic for testing and verification of software and digital circuits but many computer science students study logic only in the context of traditional mathematics encountering the subject in a few lectures and a handful of problem sets in a discrete math course This book offers a more substantive and rigorous approach to logic that focuses on applications in computer science Topics covered include predicate logic equation based software automated testing and theorem proving and large scale computation Formalism is emphasized and the book employs three formal notations traditional algebraic formulas of propositional and predicate logic digital circuit diagrams and the widely used partially automated theorem prover ACL2 which provides an accessible introduction to mechanized formalism For readers who want to see formalization in action the text presents examples using Proof Pad a lightweight ACL2 environment Readers will not become ALC2 experts but will learn how mechanized logic can benefit software and hardware engineers In addition 180 exercises some of them extremely challenging offer opportunities for problem solving There are no prerequisites beyond high school algebra Programming experience is not required to understand the book s equation based approach The book can be used in undergraduate courses in logic for computer science and introduction to computer science and in math courses for computer science students Logic and Computer Science Piergiorgio Odifreddi, 1990 The application of mathematical logic to computer science continues to be of major importance in the development of more advanced systems In this book a combination of survey chapters and applications work is presented particularly concentrating on lamda calculus typed functional programming and theorem provers

<u>Mathematical Logic and Theoretical Computer Science</u> Kueker,1986-12-22 This book includes articles on denotational semanites recursion theoretic aspects of computer science model theory and algebra automath and automated reasoning stability theory topoi and mathematics and topoi and logic It is intended for mathematical logicians and computer scientists

**Logic for Applications** Anil Nerode, Richard Shore, 1997-01-17 In writing this book our goal was to produce a text suitable for a first course in mathematical logic more attuned than the traditional textbooks to the re cent dramatic growth in the applications of logic to computer science Thus our choice oftopics has been heavily influenced by such applications Of course we cover the basic traditional topics syntax semantics soundnes5 completeness and compactness as well as a few more advanced results such as the theorems of Skolem Lowenheim and Herbrand Much ofour book however deals with other less traditional topics Resolution theorem proving plays a major role in our treatment of logic especially in its application to

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