Mordechai Ben-Ari

Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

Mathematical Logic for Computer Science
Third Edition

⚛ Springer

Mordechai Ben-Ari
Mathematical Logic for Computer Science
Third Edition

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Mordechai (Moti) Ben-Ari is with the Department of Science Teaching at the Weizmann Institute of Science. He is a Distinguished Educator of the ACM and has received the ACM/SIGCSE Award for Outstanding Contributions to Computer Science Education. His other textbooks published by Springer are: Ada for Software Engineers (Second Edition) and Principles of the Spin Model Checker.

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and old that is readily accessible and relevant to all students of the mathematical sciences not just those in traditional pure mathematics   Mathematical Logic for Computer Science Zhongwan Lu,1989 This book describes the aspects of mathematical logic related to computer sciences The materials adopted in this book are intended to attend to both the peculiarities of logical systems and the requirements of computer science   Introduction to Mathematical Logic, Fourth Edition Elliott Mendelson,1997-06-01 The Fourth Edition of this long established text retains all the key features of the previous editions covering the basic topics of a solid first course in mathematical logic This edition includes an extensive appendix on second order logic a section on set theory with urlements and a section on the logic that results when we allow models with empty domains The text contains numerous exercises and an appendix furnishes answers to many of them Introduction to Mathematical Logic includes propositional logic first order logic first order number theory and the incompleteness and undecidability theorems of G del Rosser Church and Tarski axiomatic set theory theory of computability The study of mathematical logic axiomatic set theory and computability theory provides an understanding of the fundamental assumptions and proof techniques that form basis of mathematics Logic and computability theory have also become indispensable tools in theoretical computer science including artificial intelligence Introduction to Mathematical Logic covers these topics in a clear reader friendly style that will be valued by anyone working in computer science as well as lecturers and researchers in mathematics philosophy and related fields   *Handbook of Logic and Proof Techniques for Computer Science* Steven G. Krantz,2012-12-06 Logic is and should be the core subject area of modern mathemat ics The blueprint for twentieth century mathematical thought thanks to Hilbert and Bourbaki is the axiomatic development of the subject As a result logic plays a central conceptual role At the same time mathematical logic has grown into one of the most recondite areas of mathematics Most of modern logic is inaccessible to all but the special ist Yet there is a need for many mathematical scientists not just those engaged in mathematical research to become conversant with the key ideas of logic The Handbook of Mathematical Logic edited by Jon Bar wise is in point of fact a handbook written by logicians for other mathe maticians It was at the time of its writing encyclopedic authoritative and up to the moment But it was and remains a comprehensive and authoritative book for the cognoscenti The encyclopedic Handbook of Logic in Computer Science by Abramsky Gabbay and Maibaum is a wonderful resource for the professional But it is overwhelming for the casual user There is need for a book that introduces important logic terminology and concepts to the working mathematical scientist who has only a passing acquaintance with logic Thus the present work has a different target audience The intent of this handbook is to present the elements of modern logic including many current topics to the reader having only basic mathe matical literacy

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 semanitcs reccuriosn 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   Mathematical Logic and Theoretical Computer Science Kueker,1986-12-22 This book includes articles on denotational semanitcs 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 oflogic 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

Logic Programming and PRO LOG We deal extensively with the mathematical foundations ofall three ofthese subjects In addition we include two chapters on nonclassical logics modal and intuitionistic that are becoming increasingly important in computer sci ence We develop the basic material on the syntax and semantics via Kripke frames for each of these logics In both cases our approach to formal proofs soundness and completeness uses modifications of the same tableau method in troduced for classical logic We indicate how it can easily be adapted to various other special types of modal logics A number of more advanced topics includ ing nonmonotonic logic are also briefly introduced both in the nonclassical logic chapters and in the material on Logic Programming and PROLOG   *Logicism Renewed* Paul C. Gilmore,2005-11-18 Logicism as put forward by Bertrand Russell was predicated on a belief that all of mathematics can be deduced from a very small number of fundamental logical principles In Logicism Renewed the author revisits this concept in light of advances in mathematical logic and the need for languages that can be understood by both humans and computers th

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