

Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

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Mathematical Logic For Computer Science:

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illustrative examples and exercises It presents applications and themes of computer science research such as resolution automated deduction and logic programming in a rigorous but readable way The style and scope of the work rounded out by the inclusion of exercises make this an excellent textbook for an advanced undergraduate course in logic for computer **Logic in Computer Science** Hantao Zhang, Jian Zhang, 2025-01-11 Mathematical logic is an important basis for mathematics computer science and artificial intelligence alike This book provides a comprehensive introduction to various logics including classical propositional logic and first order predicate logic as well as equational logic temporal logic and Hoare logic In addition it presents proof procedures for classical logics and decision procedures for checking the satisfiability of logical formulas The book assumes no background in logic It presents logics as practical tools for solving various problems in artificial intelligence and formal verification Accordingly it is well suited for junior and senior undergraduate and graduate students majoring in computer science or mathematics Each chapter includes roughly a dozen exercise problems so as to help the reader understand the concepts and techniques discussed **Mathematical Logic for Computer Science** M. Mathematical Logic in Computer Science B. Dömölki, Tamás Gergely, 1981 Ben-Ari,2003 **Computer Science Logic** Leszek Pacholski, Jerzy Tiuryn, 1995-07-18 This volume contains revised refereed versions of the best papers presented during the CSL 94 conference held in Kazimierz Poland in September 1994 CSL 94 is the eighth event in the series of workshops held for the third time as the Annual Conference of the European Association for Computer Science Logic The 38 papers presented were selected from a total of 151 submissions All important aspects of the methods of mathematical logic in computer science are addressed lambda calculus proof theory finite model theory logic programming semantics category theory and other logical systems Together these papers give a representative snapshot of the area of logical foundations of Mathematical Logic For Computer Science Zhongwan Lu,1989-07-01 This book describes the computer science 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

The Enigmatic Realm of Mathematical Logic For Computer Science: Unleashing the Language is Inner Magic

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Mathematical Logic For Computer Science Introduction

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