

Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

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Third Edition

 Springer

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Third Edition

Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs, but the science of logic has been guided by the needs of students of computer science. The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand. The sections on tableaux-based techniques facilitate learning advanced logical systems based on what the student has learned from elementary systems.

The logical systems presented are: propositional logic, first-order logic, resolution and its applications to logic programming, Hoare logic for the verification of sequential programs, and linear temporal logic for the verification of concurrent programs.

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Mordechai 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/IEEE-CS Award for Outstanding Contributions to Computer Science Education. His other textbooks published by Springer are: *Logic for Software Engineers* (Second Edition) and *Principles of the Spin Model Checker*.

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science **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 mathematics. 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 specialist. 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 Barwise is in point of fact a handbook written by logicians for other mathematicians. 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 mathematical literacy.

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Table of Contents Mathematical Logic For Computer Science

1. Understanding the eBook Mathematical Logic For Computer Science
 - The Rise of Digital Reading Mathematical Logic For Computer Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Logic For Computer Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Logic For Computer Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Logic For Computer Science
 - Personalized Recommendations
 - Mathematical Logic For Computer Science User Reviews and Ratings
 - Mathematical Logic For Computer Science and Bestseller Lists

5. Accessing Mathematical Logic For Computer Science Free and Paid eBooks
 - Mathematical Logic For Computer Science Public Domain eBooks
 - Mathematical Logic For Computer Science eBook Subscription Services
 - Mathematical Logic For Computer Science Budget-Friendly Options
6. Navigating Mathematical Logic For Computer Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Logic For Computer Science Compatibility with Devices
 - Mathematical Logic For Computer Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Logic For Computer Science
 - Highlighting and Note-Taking Mathematical Logic For Computer Science
 - Interactive Elements Mathematical Logic For Computer Science
8. Staying Engaged with Mathematical Logic For Computer Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Logic For Computer Science
9. Balancing eBooks and Physical Books Mathematical Logic For Computer Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Logic For Computer Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Logic For Computer Science
 - Setting Reading Goals Mathematical Logic For Computer Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Logic For Computer Science
 - Fact-Checking eBook Content of Mathematical Logic For Computer Science
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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