

Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

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Third Edition

 Springer

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Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs, but the science of logic is here guided by the needs of students of computer science. The method of systematic tabulars provides an elegant way to teach logic that is both theoretically sound and easy to understand. The sections on algorithmic-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.

The third edition has been entirely rewritten and includes new chapters on central topics of modern computer science: SAT solvers and model checking.

There are 120 exercises with answers available to qualified instructors.

Documented, open-source, Prolog source code for the algorithms is available at <http://code.google.com/p/mlc/>.

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/IEEE-CS 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*.

Computer Science



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Dino Mandrioli, Paola Spoletini



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Table of Contents Mathematical Logic For Computer Science Mathematical Logic For Computer Science

1. Understanding the eBook Mathematical Logic For Computer Science Mathematical Logic For Computer Science
 - The Rise of Digital Reading Mathematical Logic For Computer Science Mathematical Logic For Computer Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Logic For Computer Science 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 Mathematical Logic For Computer Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Logic For Computer Science Mathematical Logic For Computer Science

- Personalized Recommendations
 - Mathematical Logic For Computer Science Mathematical Logic For Computer Science User Reviews and Ratings
 - Mathematical Logic For Computer Science Mathematical Logic For Computer Science and Bestseller Lists
5. Accessing Mathematical Logic For Computer Science Mathematical Logic For Computer Science Free and Paid eBooks
- Mathematical Logic For Computer Science Mathematical Logic For Computer Science Public Domain eBooks
 - Mathematical Logic For Computer Science Mathematical Logic For Computer Science eBook Subscription Services
 - Mathematical Logic For Computer Science Mathematical Logic For Computer Science Budget-Friendly Options
6. Navigating Mathematical Logic For Computer Science Mathematical Logic For Computer Science eBook Formats
- ePub, PDF, MOBI, and More
 - Mathematical Logic For Computer Science Mathematical Logic For Computer Science Compatibility with Devices
 - Mathematical Logic For Computer Science Mathematical Logic For Computer Science Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematical Logic For Computer Science Mathematical Logic For Computer Science
 - Highlighting and Note-Taking Mathematical Logic For Computer Science Mathematical Logic For Computer Science
 - Interactive Elements Mathematical Logic For Computer Science Mathematical Logic For Computer Science
8. Staying Engaged with Mathematical Logic For Computer Science Mathematical Logic For Computer Science
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Logic For Computer Science Mathematical Logic For Computer Science
9. Balancing eBooks and Physical Books Mathematical Logic For Computer Science Mathematical Logic For Computer Science
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Logic For Computer Science 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 Mathematical Logic For Computer Science
 - Setting Reading Goals Mathematical Logic For Computer Science Mathematical Logic For Computer Science
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Logic For Computer Science Mathematical Logic For Computer Science
 - Fact-Checking eBook Content of Mathematical Logic For Computer Science 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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