

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 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.

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 100 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 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*.

Computer Science



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Mathematical Logic For Computer Science

S Ben Porath



Mathematical Logic For Computer Science:

The book delves into Mathematical Logic For Computer Science. Mathematical Logic For Computer Science is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mathematical Logic For Computer Science, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mathematical Logic For Computer Science
 - Chapter 2: Essential Elements of Mathematical Logic For Computer Science
 - Chapter 3: Mathematical Logic For Computer Science in Everyday Life
 - Chapter 4: Mathematical Logic For Computer Science in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Mathematical Logic For Computer Science. The first chapter will explore what Mathematical Logic For Computer Science is, why Mathematical Logic For Computer Science is vital, and how to effectively learn about Mathematical Logic For Computer Science.
 3. In chapter 2, this book will delve into the foundational concepts of Mathematical Logic For Computer Science. The second chapter will elucidate the essential principles that must be understood to grasp Mathematical Logic For Computer Science in its entirety.
 4. In chapter 3, the author will examine the practical applications of Mathematical Logic For Computer Science in daily life. This chapter will showcase real-world examples of how Mathematical Logic For Computer Science can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Mathematical Logic For Computer Science in specific contexts. The fourth chapter will explore how Mathematical Logic For Computer Science is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Mathematical Logic For Computer Science. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mathematical Logic For Computer Science.

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