

# 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*

*Mathematical Logic for Computer Science* is a mathematics textbook with exercises and proofs. The first edition of this book was published by the Springer-Verlag in 1983. This book is both theoretically sound and easy to understand. The sections are of variable length and techniques facilitate learning advanced logical systems based on what the reader has learned from elementary systems.

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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 130 exercises with answers available to qualified instructors.

Decompiled, open source, Python 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/SPECIS 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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**Anil Nerode, Richard Shore**



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Uwe Schöningh, 2008-01-11 This book introduces the notions and methods of formal logic from a computer science standpoint covering propositional logic, predicate logic and foundations of logic programming. The classic text is replete with 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 scientists. **Mathematical Logic for Computer Science**

Zhongwan Lu, 1998 *Mathematical logic is essentially related to computer science*. This book describes the aspects of mathematical logic that are closely related to each other including classical logic, constructive logic and modal logic. This book is intended to attend to both the peculiarities of logical systems and the requirements of computer science. In this edition the revisions essentially involve rewriting the proofs, increasing the explanations and adopting new terms and notations. **Mathematical Logic For Computer Science, 2E**

Ben-Ari, 2005-01-01 **Mathematical Logic for Computer Science**

Dino Mandrioli, Paola Spoletini, 2010-02-01 In the recent decades mathematical logic has become more and more important in computer science and in general in system engineering. In fact by definition it is the way of expressing our reasoning in terms of mathematical formalism thus supplying it with the typical rigor and precision of mathematics. Not by chance automatic information processing is now pervasive and we find it practically in any human activity and artefact from embedded safety critical systems to e commerce to social networks etc. Such a pervasiveness and the consequent heterogeneity of the involved systems mandate much more generality in the formalism supporting the engineering activity.

than traditional specialized models such as e.g. those for electric circuits and mechanical engines mathematical logic paired with computer applications provides such generality **Mathematical Logic for Computer Science** M. Ben-Ari, 2003

**Mathematical Logic in Computer Science** B. Dömölki, Tamás Gergely, 1981 *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 computer science **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 **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 **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 urelements 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 Gödel Rosser Church and Tarski

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computer science and in math courses for computer science students

**Handbook of Logic and Proof Techniques for Computer Science** Steven George Krantz, 2002

**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

*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 recent dramatic growth in the applications of logic to computer science Thus our choice of topics has been heavily influenced by such applications Of course we cover the basic traditional topics syntax semantics soundness completeness and compactness as well as a few more advanced results such as the theorems of Skolem Lowenheim and Herbrand Much of our 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 of all three of these subjects In addition we include two chapters on nonclassical logics modal and intuitionistic that are becoming increasingly important in computer science 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 introduced 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 including nonmonotonic logic are also briefly introduced both in the nonclassical logic chapters and in the material on Logic Programming and PRO LOG

**Mathematical Logic and Theoretical Computer Science** Kueker, 1986-12-22 This book includes articles on denotational semantics recursion theoretic aspects of computer science model theory and algebra automata and automated reasoning stability theory topology and mathematics and topology and logic It is intended for mathematical logicians and computer scientists

**A Concise Introduction to Mathematical Logic** Wolfgang Rautenberg, 2006 This book is unique in treating mathematical logic in a concise and streamlined fashion This allows many important topics to be covered in a one semester course Although the book is intended for use as a graduate text the first three chapters can be understood by undergraduates interested in mathematical logic The remaining chapters contain material on logic programming for computer scientists model theory recursion theory Godel's Incompleteness Theorems and applications of mathematical logic Philosophical and foundational problems of mathematics are discussed throughout the text and the author has provided exercises for each chapter as well as hints to selected exercises Traditional logic as a part of philosophy is one of the oldest scientific disciplines Mathematical logic however is a relatively young discipline and arose from the endeavors of Peano Frege Russell and others to create a logical foundation for mathematics

## **Mathematical Logic For Computer Science Mathematical Logic For Computer Science** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mathematical Logic For Computer Science Mathematical Logic For Computer Science**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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