

Series in Computer Science Vol. 47

# MATHEMATICAL LOGIC FOR COMPUTER SCIENCE

*Second Edition*

**Lu Zhongwan**

 **World Scientific**



# Mathematical Logic For Computer Science 2nd Edition

**Lingsheng Yao**



## **Mathematical Logic For Computer Science 2nd Edition:**

Mathematical Logic For Computer Science (2nd Edition) Zhongwan Lu, 1998-08-22 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* Mordechai Ben-Ari, 2012-06-16 Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs but the choice of topics 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 uniform use of tableaux based techniques facilitates 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 application 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 Mathematical Logic For Computer Science Zhongwan Lu, 1989-07-01 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 **LOGICS FOR COMPUTER SCIENCE, SECOND EDITION** SINGH, ARINDAMA, 2018-06-01 Designed primarily as an introductory text on logic for computer science this well organized book deals with almost all the basic concepts and techniques that are pertinent to the subject It provides an excellent understanding of the logics used in computer science today Starting with the logic of propositions it gives a detailed coverage of first order logic and modal logics It discusses various approaches to the proof theory of the logics e g axiomatic systems natural deduction systems Gentzen systems analytic tableau and resolution It deals with an important application of logic to computer science namely verification of programs The book gives the flavour of logic engineering through computation tree logic a logic of model checking The book concludes with a fairly detailed discussion on nonstandard logics including intuitionistic logic Lukasiewicz logics default logic autoepistemic logic and fuzzy logic The Second Edition includes applications of compactness theorem to many interesting problems relevant to mathematics and computer science It also presents the undecidability of first order logic inexpressibility of truth and incompleteness of Peano s Arithmetic in a comprehensive and lively manner Besides students of Computer Science those offering courses in Mathematics and Philosophy would greatly benefit from this study **KEY FEATURES** Provides numerous worked out examples which not only illustrate the concepts and theory developed but also give a lead to the succeeding notions Exercises at the end of each section aim at reinforcing and mastering the techniques raising issues and preparing background for further

development of the subject Problems of theoretical nature which are important for learning the subject are included at the end of each chapter The reader is constantly provoked to work out the details promoting interactive learning *Computer Science*, *GATE AND PGECET FOR COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, Second Edition* RAMAIAH K, DASARADH, 2019-11-01 Graduate Aptitude Test in Engineering GATE is one of the recognized national level examinations that demands focussed study along with forethought systematic planning and exactitude Postgraduate Engineering Common Entrance Test PGECET is also one of those examinations a student has to face to get admission in various postgraduate programs So in order to become up to snuff for this eligibility clause qualifying GATE PGECET a student facing a very high competition should excel his/her standards to success by way of preparing from the standard books This book guides students via simple elegant and explicit presentation that blends theory logically and rigorously with the practical aspects bearing on computer science and information technology The book not only keeps abreast of all the chapterwise information generally asked in the examinations but also proffers felicitous tips in the furtherance of problem solving technique HIGHLIGHTS OF THE BOOK Systematic discussion of concepts endowed with ample illustrations Notes are incorporated at several places giving additional information on the key concepts Inclusion of solved practice exercises for verbal and numerical aptitude to guide students from practice and examination point of view Prodigious objective type questions based on the past years GATE examination questions with answer keys and in depth explanation are available at [https://www.phindia.com/GATE\\_AND\\_PGECET](https://www.phindia.com/GATE_AND_PGECET) Every solution lasts with a reference thus providing a scope for further study The book which will prove to be an epitome of learning the concepts of CS and IT for GATE PGECET examination is purely intended for the aspirants of GATE and PGECET examinations It should also be of considerable utility and worth to the aspirants of UGC NET as well as to those who wish to pursue career in public sector units like ONGC NTPC ISRO BHEL BARC DRDO DVC Power grid IOCL and many more In addition the book is also of immense use for the placement coordinators of GATE PGECET TARGET AUDIENCE GATE PGECET Examination UGC NET Examination Examinations conducted by PSUs like ONGC NTPC ISRO BHEL BARC DRDO DVC Power grid IOCL and many more Concrete Abstractions Wolfgang Schreiner, 2023-04-11 This book demonstrates how to formally model various mathematical domains including algorithms operating in these domains in a way that makes them amenable to a fully automatic analysis by computer software The presented domains are typically investigated in discrete mathematics logic algebra and computer science they are modeled in a formal language based on first order logic which is sufficiently rich to express the core entities in whose correctness we are interested mathematical theorems and algorithmic specifications This formal language is the language of RISCAL a mathematical model checker by which the validity of all formulas and the correctness of all algorithms can be automatically decided The RISCAL software is freely available all formal contents presented in the book are given in the form of specification files by which the reader may interact with the software while studying the corresponding book

material [Subject Guide to Books in Print](#), 1996 [A Mathematical Introduction to Logic](#) Herbert B. Enderton, 2001-01-23

[A Mathematical Introduction to Logic](#) [A Friendly Introduction to Mathematical Logic](#) Christopher C. Leary, Lars Kristiansen, 2015 At the intersection of mathematics computer science and philosophy mathematical logic examines the power and limitations of formal mathematical thinking In this expansion of Leary's user friendly 1st edition readers with no previous study in the field are introduced to the basics of model theory proof theory and computability theory The text is designed to be used either in an upper division undergraduate classroom or for self study Updating the 1st Edition's treatment of languages structures and deductions leading to rigorous proofs of Gödel's First and Second Incompleteness Theorems the expanded 2nd Edition includes a new introduction to incompleteness through computability as well as solutions to selected exercises [Books in Print](#), 1994 [GATE Computer Science and Information Technology](#) Nagpal D.P., 2009 This book has been prepared to meet the requirements of students preparing for GATE examination in Computer Science Engineering discipline as per the prescribed [The Cumulative Book Index](#), 1998 A world list of books in the English language [Mathematical Logic For Computer Science, 2E](#) Ben-Ari, 2005-01-01 **Scientific and Technical Books and Serials in Print**, 1989 [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 axiomatic set theory theory of computability The study of mathematical logic axiomatic set theory and computability theory provides an understanding of the fundamental assumptions and proof techniques that form basis of mathematics Logic and computability theory have also become indispensable tools in theoretical computer science including artificial intelligence Introduction to Mathematical Logic covers these topics in a clear reader friendly style that will be valued by anyone working in computer science as well as lecturers and researchers in mathematics philosophy and related fields [Category Theory for Computing Science](#) Michael Barr, Charles Wells, 1995 A wide coverage of topics in category theory and computer science is developed in this text including introductory treatments of cartesian closed categories sketches and elementary categorical model theory and triples Over 300 exercises are included [The American Mathematical Monthly](#), 1921 [American Book Publishing Record](#), 2000 **Constructivity and Computability in Historical and Philosophical Perspective** Jacques Dubucs, Michel Bourdeau, 2014-08-27 Ranging from Alan Turing's seminal 1936 paper to the latest work on Kolmogorov complexity and linear logic this comprehensive new work clarifies the relationship between computability on the one hand and constructivity on the other The authors argue that even though

constructivists have largely shed Brouwer's solipsistic attitude to logic there remain points of disagreement to this day Focusing on the growing pains computability experienced as it was forced to address the demands of rapidly expanding applications the content maps the developments following Turing's ground breaking linkage of computation and the machine the resulting birth of complexity theory the innovations of Kolmogorov complexity and resolving the dissonances between proof theoretical semantics and canonical proof feasibility Finally it explores one of the most fundamental questions concerning the interface between constructivity and computability whether the theory of recursive functions is needed for a rigorous development of constructive mathematics This volume contributes to the unity of science by overcoming disunities rather than offering an overarching framework It posits that computability's adoption of a classical ontological point of view kept these imperatives separated In studying the relationship between the two it is a vital step forward in overcoming the disagreements and misunderstandings which stand in the way of a unifying view of logic

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