Deontic Logic In Computer Science

Mathematical Logic for Computer ScienceLogic for Computer ScientistsLogic in Computer ScienceMathematical Logic For Computer Science (2nd Edition)Mathematical Logic for Computer ScienceLogic And Language Models For Computer Science (Third Edition)Mathematical Logic for Computer ScienceMathematical Logic in Computer ScienceThe Logical Basis for Computer Programming: Deductive reasoningLectures on the Logic of Computer ProgrammingLogic for Computer ScienceLogics for Computer ScienceLogic in Computer ScienceLogic for Mathematics and Computer ScienceLogic and Computer Design FundamentalsEssential Logic for Computer ScienceHandbook of Logic and Proof Techniques for Computer ScienceLogic and Computer ScienceLogicFrom Logic to Computing Zhongwan Lu Uwe Schöning Michael Huth Zhongwan Lu Mordechai Ben-Ari Dana Richards Zhongwan Lu B. Dömölki Zohar Manna Zohar Manna Steve Reeves Anita Wasilewska Stanley Burris M. Morris Mano Rex Page Steven G. Krantz Piergiorgio Odifreddi Morton L. Schagrin Robert P. McArthur

Mathematical Logic for Computer Science Logic for Computer Scientists Logic in Computer Science Mathematical Logic For Computer Science (2nd Edition) Mathematical Logic for Computer Science Logic And Language Models For Computer Science (Third Edition) Mathematical Logic for Computer Science Mathematical Logic in Computer Science The Logical Basis for Computer Programming: Deductive reasoning Lectures on the Logic of Computer Programming Logic for Computer Science Logics for Computer Science Logic in Computer Science Logic for Mathematics and Computer Science Logic and Computer Design Fundamentals Essential Logic for Computer Science Handbook of Logic and Proof Techniques for Computer Science Logic and Computer Science Logic From Logic to Computing *Zhongwan Lu Uwe Schöning Michael Huth Zhongwan Lu Mordechai Ben-Ari Dana Richards Zhongwan Lu B. Dömölki Zohar Manna Zohar Manna Steve Reeves Anita Wasilewska Stanley Burris M. Morris Mano Rex Page Steven G. Krantz Piergiorgio Odifreddi Morton L. Schagrin Robert P. McArthur*

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

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

recent years have seen the development of powerful tools for verifying hardware and software systems as companies worldwide realise the need for improved means of validating their products there is increasing demand for training in basic methods in formal reasoning so that students can gain proficiency in logic based verification methods the second edition of

this successful textbook addresses both those requirements by continuing to provide a clear introduction to formal reasoning which is both relevant to the needs of modern computer science and rigorous enough for practical application improvements to the first edition have been made throughout with extra and expanded sections on sat solvers existential universal second order logic micro models programming by contract and total correctness the coverage of model checking has been substantially updated further exercises have been added internet support for the book includes worked solutions for all exercises for teachers and model solutions to some exercises for students

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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

this text presents the formal concepts underlying computer science it starts with a wide introduction to logic with an emphasis on reasoning and proof with chapters on program verification and prolog the treatment of computability with automata and formal languages stands out in several ways the style is appropriate for both undergraduate and graduate classes

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mathematical logic theories with induction

this monograph deals with aspects of the computer programming process that involve techniques derived from mathematical logic the author focuses on proving that a given program produces the intended result whenever it halts that a given program will eventually halt that a given program is partially correct and terminates and that a system of rewriting rules always halts also the author describes the intermediate behavior of a given program and discusses constructing a program to meet a given specification

an understanding of logic is essential to computer science this book provides a highly accessible account of the logical basis required for reasoning about computer programs and applying logic in fields like artificial intelligence the text contains extended examples algorithms and programs written in standard ml and prolog no prior knowledge of either language is required the book contains a clear account of classical first order logic one of the basic tools for program verification as well as an introductory survey of modal and temporal logics and possible world semantics an introduction to intuitionistic logic as a basis for an

important style of program specification is also featured in the book

providing an in depth introduction to fundamental classical and non classical logics this textbook offers a comprehensive survey of logics for computer scientists logics for computer science contains intuitive introductory chapters explaining the need for logical investigations motivations for different types of logics and some of their history they are followed by strict formal approach chapters all chapters contain many detailed examples explaining each of the introduced notions and definitions well chosen sets of exercises with carefully written solutions and sets of homework while many logic books are available they were written by logicians for logicians not for computer scientists they usually choose one particular way of presenting the material and use a specialized language logics for computer science discusses gentzen as well as hilbert formalizations first order theories the hilbert program godel s first and second incompleteness theorems and their proofs it also introduces and discusses some many valued logics modal logics and introduces algebraic models for classical intuitionistic and modal s4 and s5 logics the theory of computation is based on concepts defined by logicians and mathematicians logic plays a fundamental role in computer science and this book explains the basic theorems as well as different techniques of proving them in classical and some non classical logics important applications derived from concepts of logic for computer technology include artificial intelligence and software engineering in addition to computer science this book may also find an audience in mathematics and philosophy courses and some of the chapters are also useful for a course in artificial intelligence

this text is intended for one semester courses in logic it can also be applied to a two semester course in either computer science or mathematics departments unlike other texts on mathematical logic that are either too advanced too sparse in examples or exercises too traditional in coverage or too philosophical in approach this text provides an elementary hands on presentation of important mathematical logic topics new and old that is readily accessible and relevant to all students of the mathematical sciences not just those in traditional pure mathematics

based on the book computer engineering hardware design 1988 which presented the same combined treatment of logic design digital system design and computer design basics because of its broad coverage of both logic and computer design this text can be used to provide an overview of logic and computer hardware for computer science computer engineering electrical engineering or engineering students in general annotation copyright by book news inc portland or

an introduction to applying predicate logic to testing and verification of software and digital circuits that focuses on applications rather than theory computer scientists use logic for testing and verification of software and digital circuits but many computer science students study logic only in the context of traditional mathematics encountering the subject in a few lectures and a handful of problem sets in a discrete math course this book offers a more substantive and rigorous approach to logic that focuses on applications in computer science topics covered include predicate logic equation based software automated testing and theorem proving and large scale computation formalism is emphasized and the book employs three formal notations traditional algebraic formulas of propositional and predicate logic digital circuit diagrams and the widely used partially automated theorem prover acl2 which provides an accessible introduction to mechanized formalism for readers who want to see formalization in action the text presents examples using proof pad a lightweight acl2 environment readers will not become alc2 experts but will learn how mechanized logic can benefit software and hardware engineers in addition 180 exercises some of them extremely challenging offer opportunities for problem solving there are no prerequisites beyond high school algebra

programming experience is not required to understand the book s equation based approach the book can be used in undergraduate courses in logic for computer science and introduction to computer science and in math courses for computer science students

logic is and should be the core subject area of modern mathemat ics 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 special ist 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 bar wise is in point of fact a handbook written by logicians for other mathe maticians 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 mathe matical literacy

the application of mathematical logic to computer science continues to be of major importance in the development of more advanced systems in this book a combination of survey chapters and applications work is presented particularly concentrating on lamda calculus typed functional programming and theorem provers

this book forges a bridge between logical principles in their application to reasoning in ordinary language on one hand and logical principles as fundamental to the development and operation of computers on the other

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