Mathematical Logic and Computability (International Series in Pure ...

Mathematical Logic And Computability

Michal Walicki

Mathematical Logic And Computability:
  Mathematical Logic and Computability H. Jerome Keisler,1987   **Mathematical Logic and Computability** H. Jerome Keisler,Joel W. Robbin,1996-01-01 A Logiclab to accompany Keisler Robbin Mathematical Logic and Computability Disk 1 of 1 1996 McGraw Hill Co Inc For use with IBM and compatible computers   *Computability and Logic* George S. Boolos,John P. Burgess,Richard C. Jeffrey,2007-09-17 This fifth edition of Computability and Logic covers not just the staple topics of an intermediate logic course such as Godel s incompleteness theorems but also optional topics that include Turing s theory of computability and Ramsey s theorem   Computability, Complexity, Logic E. Börger,1989-07-01 The theme of this book is formed by a pair of concepts the concept of formal language as carrier of the precise expression of meaning facts and problems and the concept of algorithm or calculus i e a formally operating procedure for the solution of precisely described questions and problems The book is a unified introduction to the modern theory of these concepts to the way in which they developed first in mathematical logic and computability theory and later in automata theory and to the theory of formal languages and complexity theory Apart from considering the fundamental themes and classical aspects of these areas the subject matter has been selected to give priority throughout to the new aspects of traditional questions results and methods which have developed from the needs or knowledge of computer science and particularly of complexity theory It is both a textbook for introductory courses in the above mentioned disciplines as well as a monograph in which further results of new research are systematically presented and where an attempt is made to make explicit the connections and analogies between a variety of concepts and constructions   **Foundations of Logic and Theory of Computation** A. Sernadas,Cristina Sernadas,2008 The book provides a self contained introduction to mathematical logic and computability theory for students of mathematics or computer science It is organized around the failures and successes of Hilbert s programme for the formalization of Mathematics It is widely known that the programme failed with G del s incompleteness theorems and related negative results about arithmetic Unfortunately the positive outcomes of the programme are less well known even among mathematicians The book covers key successes like G del s proof of the completeness of first order logic Gentzen s proof of its consistency by purely symbolic means and the decidability of a couple of useful theories The book also tries to convey the message that Hilbert s programme made a significant contribution to the advent of the computer as it is nowadays understood and thus to the latest industrial revolution Part I of the book addresses Hilbert s programme and computability Part II presents first order logic including G del s completeness theorem and Gentzen s consistency theorem Part III is focused on arithmetic representability of computable maps G del s incompleteness theorems and decidability of Presburger arithmetic Part IV provides detailed answers to selected exercises The book can be used at late undergraduate level or early graduate level An undergraduate course would concentrate on Parts I and II leaving out the Gentzen calculus and sketching the way to the 1st incompleteness theorem A more advanced course might skip early material already known to the students

and concentrate on the positive and negative results of Hilbert s programme thus covering Gentzen s proof of consistency and Part III in full   Logic, Foundations of Mathematics, and Computability Theory Robert E. Butts,Jaakko Hintikka,2012-12-06 The Fifth International Congress of Logic Methodology and Philosophy of Science was held at the University of Western Ontario London Canada 27 August to 2 September 1975 The Congress was held under the auspices of the International Union of History and Philosophy of Science Division of Logic Methodology and Philosophy of Science and was sponsored by the National Research Council of Canada and the University of Western Ontario As those associated closely with the work of the Division over the years know well the work undertaken by its members varies greatly and spans a number of fields not always obviously related In addition the volume of work done by first rate scholars and scientists in the various fields of the Division has risen enormously For these and related reasons it seemed to the editors chosen by the Divisional officers that the usual format of publishing the proceedings of the Congress be abandoned in favour of a somewhat more flexible and hopefully acceptable method of pre sentation Accordingly the work of the invited participants to the Congress has been divided into four volumes appearing in the University of Western Ontario Series in Philosophy of Science The volumes are entitled Logic Foundations of Mathematics and Computability Theory Foun dational Problems in the Special Sciences Basic Problems in Methodol ogy and Linguistics and Historical and Philosophical Dimensions of Logic Methodology and Philosophy of Science   **Proofs and Algorithms** Gilles Dowek,2011-01-11 Logic is a branch of philosophy mathematics and computer science It studies the required methods to determine whether a statement is true such as reasoning and computation Proofs and Algorithms Introduction to Logic and Computability is an introduction to the fundamental concepts of contemporary logic those of a proof a computable function a model and a set It presents a series of results both positive and negative Church s undecidability theorem G del s incompleteness theorem the theorem asserting the semi decidability of provability that have profoundly changed our vision of reasoning computation and finally truth itself Designed for undergraduate students this book presents all that philosophers mathematicians and computer scientists should know about logic   **Computability and Unsolvability** Martin Davis,2013-04-16 Classic graduate level introduction to theory of computability Discusses general theory of computability computable functions operations on computable functions Turing machines self applied unsolvable decision problems applications of general theory mathematical logic Kleene hierarchy more   *A Problem Course in Mathematical Logic* Stefan Bilaniuk,1997   Computability George Tourlakis,2022-08-02 This survey of computability theory offers the techniques and tools that computer scientists as well as mathematicians and philosophers studying the mathematical foundations of computing need to mathematically analyze computational processes and investigate the theoretical limitations of computing Beginning with an introduction to the mathematisation of mechanical process using URM programs this textbook explains basic theory such as primitive recursive functions and predicates and sequence coding partial recursive functions and predicates and loop programs Advanced

chapters cover the Ackerman function Tarski s theorem on the non representability of truth Goedel s incompleteness and Rosser s incompleteness theorems two short proofs of the incompleteness theorem that are based on Lob s deliverability conditions Church s thesis the second recursion theorem and applications a provably recursive universal function for the primitive recursive functions Oracle computations and various classes of computable functionals the Arithmetical hierarchy Turing reducibility and Turing degrees and the priority method a thorough exposition of various versions of the first recursive theorem Blum s complexity Hierarchies of primitive recursive functions and a machine independent characterisation of Cobham s feasibly computable functions **Mathematical Logic and Computation** Jeremy Avigad,2022-11-09 This new book on mathematical logic by Jeremy Avigad gives a thorough introduction to the fundamental results and methods of the subject from the syntactic point of view emphasizing logic as the study of formal languages and systems and their proper use Topics include proof theory model theory the theory of computability and axiomatic foundations with special emphasis given to aspects of mathematical logic that are fundamental to computer science including deductive systems constructive logic the simply typed lambda calculus and type theoretic foundations Clear and engaging with plentiful examples and exercises it is an excellent introduction to the subject for graduate students and advanced undergraduates who are interested in logic in mathematics computer science and philosophy and an invaluable reference for any practicing logician s bookshelf **Mathematical Logic** George Tourlakis,2011-03-01 A comprehensive and user friendly guide to the use of logic in mathematical reasoning Mathematical Logic presents a comprehensive introduction to formal methods of logic and their use as a reliable tool for deductive reasoning With its user friendly approach this book successfully equips readers with the key concepts and methods for formulating valid mathematical arguments that can be used to uncover truths across diverse areas of study such as mathematics computer science and philosophy The book develops the logical tools for writing proofs by guiding readers through both the established Hilbert style of proof writing as well as the equational style that is emerging in computer science and engineering applications Chapters have been organized into the two topical areas of Boolean logic and predicate logic Techniques situated outside formal logic are applied to illustrate and demonstrate significant facts regarding the power and limitations of logic such as Logic can certify truths and only truths Logic can certify all absolute truths completeness theorems of Post and G del Logic cannot certify all conditional truths such as those that are specific to the Peano arithmetic Therefore logic has some serious limitations as shown through G del s incompleteness theorem Numerous examples and problem sets are provided throughout the text further facilitating readers understanding of the capabilities of logic to discover mathematical truths In addition an extensive appendix introduces Tarski semantics and proceeds with detailed proofs of completeness and first incompleteness theorems while also providing a self contained introduction to the theory of computability With its thorough scope of coverage and accessible style Mathematical Logic is an ideal book for courses in mathematics computer science and philosophy at the upper undergraduate and graduate levels It is

also a valuable reference for researchers and practitioners who wish to learn how to use logic in their everyday work

Three Views of Logic Donald W. Loveland,Richard Hodel,S. G. Sterrett,2014-01-26 The first interdisciplinary textbook to introduce students to three critical areas in applied logic Demonstrating the different roles that logic plays in the disciplines of computer science mathematics and philosophy this concise undergraduate textbook covers select topics from three different areas of logic proof theory computability theory and nonclassical logic The book balances accessibility breadth and rigor and is designed so that its materials will fit into a single semester Its distinctive presentation of traditional logic material will enhance readers capabilities and mathematical maturity The proof theory portion presents classical propositional logic and first order logic using a computer oriented resolution formal system Linear resolution and its connection to the programming language Prolog are also treated The computability component offers a machine model and mathematical model for computation proves the equivalence of the two approaches and includes famous decision problems unsolvable by an algorithm The section on nonclassical logic discusses the shortcomings of classical logic in its treatment of implication and an alternate approach that improves upon it Anderson and Belnap s relevance logic Applications are included in each section The material on a four valued semantics for relevance logic is presented in textbook form for the first time Aimed at upper level undergraduates of moderate analytical background Three Views of Logic will be useful in a variety of classroom settings Gives an exceptionally broad view of logic Treats traditional logic in a modern format Presents relevance logic with applications Provides an ideal text for a variety of one semester upper level undergraduate courses

Computability and Decidability J. Loeckx,2012-12-06 The present Lecture Notes evolved from a course given at the Technische Hogeschool Eindhoven and later at the Technische Hogeschool Twente They are intended for computer science students more specifically their goal is to introduce the notions of computability and decidability and to prepare for the study of automata theory formal language theory and the theory of computing Except for a general mathematical background no preliminary knowledge is presupposed but some experience in programming may be helpful While classical treatises on computability and decidability are oriented towards the foundation of mathematics or mathematical logic the present notes try to relate the subject to computer science Therefore the expose is based on the use of strings rather than on that of natural numbers the notations are similar to those in use in automata theory in addition according to a common usage in formal language theory most of the proofs of computability are reduced to the semi formal description of a procedure the constructivity of which is apparent to anybody having some programming experience Notwithstanding these facts the subject is treated with mathematical rigor a great number of informal comments are inserted in order to allow a good intuitive understanding I am indebted to all those who drew my attention to some errors and ambiguities in a preliminary version of these Notes I want also to thank Miss L A Krukerink for her diligence in typing the manuscript **Mathesis Universalis, Computability and Proof** Stefania Centrone,Sara Negri,Deniz Sarikaya,Peter M. Schuster,2019-10-25 In a fragment

entitled Elementa Nova Matheseos Universalis 1683 Leibniz writes the mathesis shall deliver the method through which things that are conceivable can be exactly determined in another fragment he takes the mathesis to be the science of all things that are conceivable Leibniz considers all mathematical disciplines as branches of the mathesis and conceives the mathesis as a general science of forms applicable not only to magnitudes but to every object that exists in our imagination i e that is possible at least in principle As a general science of forms the mathesis investigates possible relations between arbitrary objects objets quelconques It is an abstract theory of combinations and relations among objects whatsoever In 1810 the mathematician and philosopher Bernard Bolzano published a booklet entitled Contributions to a Better Grounded Presentation of Mathematics There is according to him a certain objective connection among the truths that are germane to a certain homogeneous field of objects some truths are the reasons Gr nde of others and the latter are consequences Folgen of the former The reason consequence relation seems to be the counterpart of causality at the level of a relation between true propositions Arigorous proof is characterized in this context as a proof that shows the reason of the proposition that is to be proven Requirements imposed on rigorous proofs seem to anticipate normalization results in current proof theory The contributors of Mathesis Universalis Computability and Proof leading experts in the fields of computer science mathematics logic and philosophy show the evolution of these and related ideas exploring topics in proof theory computability theory intuitionistic logic constructivism and reverse mathematics delving deeply into a contextual examination of the relationship between mathematical rigor and demands for simplification   Introduction To Mathematical Logic (Extended Edition) Michal Walicki,2016-08-12 This is a systematic and well paced introduction to mathematical logic Excellent as a course text the book presupposes only elementary background and can be used also for self study by more ambitious students Starting with the basics of set theory induction and computability it covers propositional and first order logic their syntax reasoning systems and semantics Soundness and completeness results for Hilbert s and Gentzen s systems are presented along with simple decidability arguments The general applicability of various concepts and techniques is demonstrated by highlighting their consistent reuse in different contexts Unlike in most comparable texts presentation of syntactic reasoning systems precedes the semantic explanations The simplicity of syntactic constructions and rules of a high though often neglected pedagogical value aids students in approaching more complex semantic issues This order of presentation also brings forth the relative independence of syntax from the semantics helping to appreciate the importance of the purely symbolic systems like those underlying computers An overview of the history of logic precedes the main text while informal analogies precede introduction of most central concepts These informal aspects are kept clearly apart from the technical ones Together they form a unique text which may be appreciated equally by lecturers and students occupied with mathematical precision as well as those interested in the relations of logical formalisms to the problems of computability and the philosophy of logic This revised edition contains also besides many new exercises a new chapter on semantic paradoxes An equivalence of logical and

graphical representations allows us to see vicious circularity as the odd cycles in the graphical representation and can be used as a simple tool for diagnosing paradoxes in natural discourse **Discrete Structures, Logic, and Computability** James Hein,2010-10-25 Thoroughly updated the new Third Edition of Discrete Structures Logic and Computability introduces beginning computer science and computer engineering students to the fundamental techniques and ideas used by computer scientists today focusing on topics from the fields of mathematics logic and computer science itself Dr Hein provides elementary introductions to those ideas and techniques that are necessary to understand and practice the art and science of computing The text contains all the topics for discrete structures in the reports of the IEEE ACM Joint Task Force on Computing Curricula for computer science programs and for computer engineering programs **Higher-Order Computability** John Longley,Dag Normann,2015-11-06 This book offers a self contained exposition of the theory of computability in a higher order context where computable operations may themselves be passed as arguments to other computable operations The subject originated in the 1950s with the work of Kleene Kreisel and others and has since expanded in many different directions under the influence of workers from both mathematical logic and computer science The ideas of higher order computability have proved valuable both for elucidating the constructive content of logical systems and for investigating the expressive power of various higher order programming languages In contrast to the well known situation for first order functions it turns out that at higher types there are several different notions of computability competing for our attention and each of these has given rise to its own strand of research In this book the authors offer an integrated treatment that draws together many of these strands within a unifying framework revealing not only the range of possible computability concepts but the relationships between them The book will serve as an ideal introduction to the field for beginning graduate students as well as a reference for advanced researchers **Computability** Richard L Epstein,Walter A Carnielli,2018-10-24 Now in a new edition the classic presentation of the theory of computable functions in the context of the foundations of mathematics Part I motivates the study of computability with discussions and readings about the crisis in the foundations of mathematics in the early 20th century while presenting the basic ideas of whole number function proof and real number Part II starts with readings from Turing and Post leading to the formal theory of recursive functions Part III presents sufficient formal logic to give a full development of G del s incompleteness theorems Part IV considers the significance of the technical work with a discussion of Church s Thesis and readings on the foundations of mathematics This new edition contains the timeline Computability and Undecidability as well as the essay On mathematics **Models and Computability** S. Barry Cooper,John K. Truss,Association for Symbolic Logic,1999-06-17 Second of two volumes providing a comprehensive guide to the current state of mathematical logic

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