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Formal number theory and computability

A workbook

Alec Fisher

Formal Number Theory And Computability A Work Hb

John R. Shook, Richard T. Hull



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The Foundations of Computability Theory Borut Robič, 2015-09-14 This book offers an original and informative view of the development of fundamental concepts of computability theory The treatment is put into historical context emphasizing the motivation for ideas as well as their logical and formal development In Part I the author introduces computability theory with chapters on the foundational crisis of mathematics in the early twentieth century and formalism in Part II he explains classical computability theory with chapters on the quest for formalization the Turing Machine and early successes such as defining incomputable problems c e computably enumerable sets and developing methods for proving incomputability in Part III he explains relative computability with chapters on computation with external help degrees of unsolvability the Turing hierarchy of unsolvability the class of degrees of unsolvability c e degrees and the priority method and the arithmetical hierarchy This is a gentle introduction from the origins of computability theory up to current research and it will be of value as a textbook and guide for advanced undergraduate and graduate students and researchers in the domains of computability theory and theoretical computer science Programs as Diagrams Dusko Pavlovic, 2023-09-19 It is not always clear what computer programs mean in the various languages in which they can be written yet a picture can be worth 1000 words a diagram 1000 instructions In this unique textbook reference programs are drawn as string diagrams in the language of categories which display a universal syntax of mathematics Computer scientists use them to analyze the program semantics programmers to display the syntax of computations Here the string diagrammatic depictions of computations are construed as programs in a single instruction programming language Such programs as diagrams show how functions are packed in boxes and tied by strings Readers familiar with categories will learn about the foundations of computability readers familiar with computability gain access to category theory Additionally readers familiar with both are offered many opportunities to improve the approach Topics and features Delivers a crash diagram based course in theory of computation Uses single instruction diagrammatic programming language Offers a practical introduction into categories and string diagrams as computational tools Reveals how computability is programmability rather than an ether permeating computers Provides a categorical model of intensional computation is unique up to isomorphism Serves as a stepping stone into research of computable categories In addition to its early chapters introducing computability for beginners this flexible textbook resource also contains both middle chapters that expand for suitability to a graduate course as well as final chapters opening up new research Dusko Pavlovic is a professor at the Department of Information and Computer Sciences at the University of Hawaii at Manoa and by courtesy at the Department of Mathematics and the College of Engineering He completed this book as an Excellence Professor at Radboud University in Nijmegen The Netherlands **Introduction to Mathematical Logic**

Elliott Mendelson, 2015-05-21 The new edition of this classic textbook *Introduction to Mathematical Logic* Sixth Edition explores the principal topics of mathematical logic It covers propositional logic first order logic first order number theory

axiomatic set theory and the theory of computability The text also discusses the major results of Gödel Church Kleene Rosser

Plural Logic Alex Oliver, Timothy Smiley, 2016-11-04 Alex Oliver and Timothy Smiley provide a natural point of entry to what for most readers will be a new subject Plural logic deals with plural terms Whitehead and Russell's *Principia Mathematica* treats the real numbers the square root of 1 they plural predicates surrounded the four are prime are consistent imply and plural quantification some things any things Current logic is singularist its terms stand for at most one thing By contrast the foundational thesis of this book is that a particular term may legitimately stand for several things at once in other words there is such a thing as genuinely plural denotation The authors argue that plural phenomena need to be taken seriously and that the only viable response is to adopt a plural logic a logic based on plural denotation They expound a framework of ideas that includes the distinction between distributive and collective predicates the theory of plural descriptions multivalued functions and lists A formal system of plural logic is presented in three stages before being applied to Cantorian set theory as an illustration Technicalities have been kept to a minimum and anyone who is familiar with the classical predicate calculus should be able to follow it The authors' approach is an attractive blend of no nonsense argumentative directness and open minded liberalism and they convey the exciting and unexpected richness of their subject Mathematicians and linguists as well as logicians and philosophers will find surprises in this book This second edition includes a greatly expanded treatment of the paradigm empty term zilch a much strengthened treatment of Cantorian set theory and a new chapter on higher level plural logic

Understanding Computation Arnold L. Rosenberg, Lenwood S. Heath, 2022-08-09 Computation theory is a discipline that uses mathematical concepts and tools to expose the nature of computation and to explain a broad range of computational phenomena Why is it harder to perform some computations than others Are the differences in difficulty that we observe inherent or are they artifacts of the way we try to perform the computations How does one reason about such questions This unique textbook strives to endow students with conceptual and manipulative tools necessary to make computation theory part of their professional lives The work achieves this goal by means of three stratagems that set its approach apart from most other texts on the subject For starters it develops the necessary mathematical concepts and tools from the concepts simplest instances thereby helping students gain operational control over the required mathematics Secondly it organizes development of theory around four pillars enabling students to see computational topics that have the same intellectual origins in physical proximity to one another Finally the text illustrates the big ideas that computation theory is built upon with applications of these ideas within practical domains in mathematics computer science computer engineering and even further afield Suitable for advanced undergraduate students and beginning graduates this textbook augments the classical models that traditionally support courses on computation theory with novel models inspired by real modern computational topics such as crowd sourced computing mobile computing robotic path planning and volunteer computing Arnold L. Rosenberg is Distinguished Univ Professor Emeritus at University of Massachusetts Amherst USA

Lenwood S Heath is Professor at Virginia Tech Blacksburg USA *Formal Number Theory and Computability* Alec Fisher,1982 *Alan Turing* S. Barry Cooper,J. van Leeuwen,2013-03-18 In this 2013 winner of the prestigious R R Hawkins Award from the Association of American Publishers as well as the 2013 PROSE Awards for Mathematics and Best in Physical Sciences Mathematics also from the AAP readers will find many of the most significant contributions from the four volume set of the Collected Works of A M Turing These contributions together with commentaries from current experts in a wide spectrum of fields and backgrounds provide insight on the significance and contemporary impact of Alan Turing s work Offering a more modern perspective than anything currently available Alan Turing His Work and Impact gives wide coverage of the many ways in which Turing s scientific endeavors have impacted current research and understanding of the world His pivotal writings on subjects including computing artificial intelligence cryptography morphogenesis and more display continued relevance and insight into today s scientific and technological landscape This collection provides a great service to researchers but is also an approachable entry point for readers with limited training in the science but an urge to learn more about the details of Turing s work 2013 winner of the prestigious R R Hawkins Award from the Association of American Publishers as well as the 2013 PROSE Awards for Mathematics and Best in Physical Sciences Mathematics also from the AAP Named a 2013 Notable Computer Book in Computing Milieux by Computing Reviews Affordable key collection of the most significant papers by A M Turing Commentary explaining the significance of each seminal paper by preeminent leaders in the field Additional resources available online **Semiotics of Programming** Kumiko Tanaka-Ishii,2010-03-22 Considers what computers can and cannot do analysing how computer sign systems compare to humans through a concept of reflexivity

Computability, Complexity, and Languages Martin Davis,Ron Sigal,Elaine J. Weyuker,1994-03-18 Computability Complexity and Languages is an introductory text that covers the key areas of computer science including recursive function theory formal languages and automata It assumes a minimal background in formal mathematics The book is divided into five parts Computability Grammars and Automata Logic Complexity and Unsolvability Computability theory is introduced in a manner that makes maximum use of previous programming experience including a universal program that takes up less than a page The number of exercises included has more than tripled Automata theory computational logic and complexity theory are presented in a flexible manner and can be covered in a variety of different arrangements *Dictionary of Modern American Philosophers* John R. Shook,2005-01-01 The Dictionary of Modern American Philosophers includes both academic and non academic philosophers anda large number of female and minority thinkers whose work has been neglected It includes those intellectualsinvolved in the development of psychology pedagogy sociology anthropology education theology politicalscience and several other fields before these disciplines came to be considered distinct from philosophy in thelate nineteenth century Each entry contains a short biography of the writer an exposition and analysis of his or her doctrines and ideas abibliography of writings and suggestions for further reading While all the major post Civil War philosophers

arepresent the most valuable feature of this dictionary is its coverage of a huge range of less well known writers including hundreds of presently obscure thinkers In many cases the Dictionary of Modern AmericanPhilosophers offers the first scholarly treatment of the life and work of certain writers This book will be anindispensable reference work for scholars working on almost any aspect of modern American thought **Canadian Mathematical Bulletin** ,1989-09

Mathematical Reviews ,1979-09 **Advances in Information Systems Science** Julius T. Tou,2013-12-18

Automata, Languages and Programming ,1976 *Automata, Languages, and Programming* S. Michaelson,Robin Milner,1976 **The Dictionary of Modern American Philosophers: K-Q** John R. Shook,Richard T. Hull,2005 This

biographical dictionary contains around 900 entries on philosophers and other intellectuals who impacted philosophical thought in America from 1860 to the present i e 2005 *Proceedings of ... National Conference* Association for Computing

Machinery,1965 **How the World Computes** Barry S. Cooper,Anuj Dawar,Benedikt Löwe,2012-05-28 This book constitutes the refereed proceedings of the Turing Centenary Conference and the 8th Conference on Computability in Europe CiE 2012 held in Cambridge UK in June 2012 The 53 revised papers presented together with 6 invited lectures were carefully reviewed and selected with an acceptance rate of under 29.8% The CiE 2012 Turing Centenary Conference will be remembered as a historic event in the continuing development of the powerful explanatory role of computability across a wide spectrum of research areas The papers presented at CiE 2012 represent the best of current research in the area and forms a fitting tribute to the short but brilliant trajectory of Alan Mathison Turing Both the conference series and the association promote the development of computability related science ranging over mathematics computer science and applications in various natural and engineering sciences such as physics and biology and also including the promotion of related non scientific fields such as philosophy and history of computing **The Philosopher's Index: Subject index** ,1980

Includes original philosophy books published outside of the United States in English between 1940 and 1978 and articles published in philosophy journals between 1940 and 1966 *International Books in Print, 1995* Barbara Hopkinson,[Anonymus AC01401231],1995

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