Logic, Sets, and Recursion

Second Edition

Robert L. Causey

Logic Sets And Recursion

Dana S. Scott,Thomas J. Jech

Logic Sets And Recursion:

    Logic, Sets, and Recursion Robert L. Causey,2006 The new Second Edition incorporates a wealth of exercise sets allowing students to test themselves and review important topics discussed throughout the text Jacket   *Logic, Sets & Recursion, 2/e* Causey,2010-01-01 Logic set theory and mathematical induction play essential roles in modern mathematics and computer science Logic Sets and Recursion Second Edition provides students with the tools needed to master these important concepts This text paves the way for students preparing to enter more advanced math computer science and logic courses furnishing them with the experience necessary to construct rigorous proofs with ease It is intended to fill the gap between advanced mathematical logic texts and Discrete Mathematics texts that do not treat logic with the depth required in modern computer science The new Second Edition incorporates a wealth of exercise sets allowing students to test themselves and review important topics discussed throughout the text   **Sets, Models and Recursion Theory** Lev D. Beklemishev,2000-04-01 Sets Models and Recursion Theory   **Sets, Logic and Maths for Computing** David Makinson,2020-05-19 This easy to understand textbook introduces the mathematical language and problem solving tools essential to anyone wishing to enter the world of computer and information sciences Specifically designed for the student who is intimidated by mathematics the book offers a concise treatment in an engaging style The thoroughly revised third edition features a new chapter on relevance sensitivity in logical reasoning and many additional explanations on points that students find puzzling including the rationale for various shorthand ways of speaking and abuses of language that are convenient but can give rise to misunderstandings Solutions are now also provided for all exercises Topics and features presents an intuitive approach emphasizing how finite mathematics supplies a valuable language for thinking about computation discusses sets and the mathematical objects built with them such as relations and functions as well as recursion and induction introduces core topics of mathematics including combinatorics and finite probability along with the structures known as trees examines propositional and quantificational logic how to build complex proofs from simple ones and how to ensure relevance in logic addresses questions that students find puzzling but may have difficulty articulating through entertaining conversations between Alice and the Mad Hatter provides an extensive set of solved exercises throughout the text This clearly written textbook offers invaluable guidance to students beginning an undergraduate degree in computer science The coverage is also suitable for courses on formal methods offered to those studying mathematics philosophy linguistics economics and political science Assuming only minimal mathematical background it is ideal for both the classroom and independent study   <u>Recursion Theory</u> Anil Nerode,Richard A. Shore,1985   <u>Ordered Sets</u> Ivan Rival,2012-12-06 This volume contains all twenty three of the principal survey papers presented at the Symposium on Ordered Sets held at Banff Canada from August 28 to September 12 1981 The Symposium was supported by grants from the NATO Advanced Study Institute programme the Natural Sciences and Engineering Research Council of Canada the Canadian Mathematical

Society Summer Research Institute programme and the University of Calgary tve are very grateful to these Organizations for their considerable interest and support Over forty years ago on April 15 1938 the first Symposium on Lattice Theory was held in Charlottesville U S A in conjunction with a meeting of the American Mathematical Society The principal addresses on that occasion were Lattices and their applications by G Birkhoff On the application of structure theory to groups by O Ore and The representation of Boolean algebras by M H Stone The texts of these addresses and three others by R Baer H M MacNeille and K Menger appear in the Bulletin of the American Mathematical Society Volume 44 1938 In those days the theory of ordered sets and especially lattice theory was described as a vigorous and promising younger brother of group theory Some early workers hoped that lattice theoretic methods would lead to solutions of important problems in group theory   Generalized Recursion Theory Lev D. Beklemishev,2000-04-01 Generalized Recursion Theory   **Logical Frameworks** Gerard Huet,G. Plotkin,1991 In Logical Frameworks first published in 1991 Huet and Plotkin gathered contributions from the first International Workshop on Logical Frameworks The contributions are of the highest calibre Four main themes are covered the general problem of representing formal systems in logical frameworks basic algorithms of general use in proof assistants logical issues and large scale experiments with proof assistants   *Handbook of Computability Theory* E.R. Griffor,1999-10-01 The chapters of this volume all have their own level of presentation The topics have been chosen based on the active research interest associated with them Since the interest in some topics is older than that in others some presentations contain fundamental definitions and basic results while others relate very little of the elementary theory behind them and aim directly toward an exposition of advanced results Presentations of the latter sort are in some cases restricted to a short survey of recent results due to the complexity of the methods and proofs themselves Hence the variation in level of presentation from chapter to chapter only reflects the conceptual situation itself One example of this is the collective efforts to develop an acceptable theory of computation on the real numbers The last two decades has seen at least two new definitions of effective operations on the real numbers   *Recursively Enumerable Sets and Degrees* Robert I. Soare,1999-11-01 The book written by one of the main researchers on the field gives a complete account of the theory of r e degrees The definitions results and proofs are always clearly motivated and explained before the formal presentation the proofs are described with remarkable clarity and conciseness The book is highly recommended to everyone interested in logic It also provides a useful background to computer scientists in particular to theoretical computer scientists Acta Scientiarum Mathematicarum Ungarn 1988 The main purpose of this book is to introduce the reader to the main results and to the intricacies of the current theory for the recurseively enumerable sets and degrees The author has managed to give a coherent exposition of a rather complex and messy area of logic and with this book degree theory is far more accessible to students and logicians in other fields than it used to be Zentralblatt f r Mathematik 623 1988   **Computability In Context: Computation And Logic In The Real World** S Barry Cooper,Andrea Sorbi,2011-02-25 Computability has played

a crucial role in mathematics and computer science leading to the discovery understanding and classification of decidable undecidable problems paving the way for the modern computer era and affecting deeply our view of the world Recent new paradigms of computation based on biological and physical models address in a radically new way questions of efficiency and challenge assumptions about the so called Turing barrier This volume addresses various aspects of the ways computability and theoretical computer science enable scientists and philosophers to deal with mathematical and real world issues covering problems related to logic mathematics physical processes real computation and learning theory At the same time it will focus on different ways in which computability emerges from the real world and how this affects our way of thinking about everyday computational issues a **Axiomatic Set Theory, Part 1** Dana S. Scott,Thomas J. Jech,1971-12-31

Higher Recursion Theory Gerald E. Sacks,2017-03-02 This almost self contained introduction to higher recursion theory is essential reading for all researchers in the field **Logic and Structure** Dirk van Dalen,2013-11-11 Logic appears in a sacred and in a profane form The sacred form is dominant in proof theory the profane form in model theory The phenomenon is not unfamiliar one observes this dichotomy also in other areas e g set theory and recursion theory For one reason or another such as the discovery of the set theoretical paradoxes Cantor Russell or the definability paradoxes Richard Berry a subject is treated for some time with the utmost awe and diffidence As a rule however sooner or later people start to treat the matter in a more free and easy way Being raised in the sacred tradition I was greatly surprised and some what shocked when I observed Hartley Rogers teaching recursion theory to mathema ticians as if it were just an ordinary course in say linear algebra or algebraic topology In the course of time I have come to accept his viewpoint as the didac tically sound one before going into esoteric niceties one should develop a certain feeling for the subject and obtain a reasonable amount of plain working knowledge For this reason I have adopted the profane attitude in this introductory text reserving the more sacred approach for advanced courses Readers who want to know more about the latter aspect of logic are referred to the immortal texts of Hilbert Bernays or Kleene **Library of Congress Subject Headings** Library of Congress,2012 **David Makinson on Classical Methods for Non-Classical Problems** Sven Ove Hansson,2013-12-20 The volume analyses and develops David Makinson s efforts to make classical logic useful outside its most obvious application areas The book contains chapters that analyse appraise or reshape Makinson s work and chapters that develop themes emerging from his contributions These are grouped into major areas to which Makinsons has made highly influential contributions and the volume in its entirety is divided into four sections each devoted to a particular area of logic belief change uncertain reasoning normative systems and the resources of classical logic Among the contributions included in the volume one chapter focuses on the inferential preferential method i e the combined use of classical logic and mechanisms of preference and choice and provides examples from Makinson s work in non monotonic and defeasible reasoning and belief revision One chapter offers a short autobiography by Makinson which details his discovery of modern logic his travels across continents and reveals his

intellectual encounters and inspirations The chapter also contains an unusually explicit statement on his views on the limited but important role of logic in philosophy   *Computability* B. Jack Copeland,Carl J. Posy,Oron Shagrir,2013-06-07 Computer scientists mathematicians and philosophers discuss the conceptual foundations of the notion of computability as well as recent theoretical developments In the 1930s a series of seminal works published by Alan Turing Kurt G del Alonzo Church and others established the theoretical basis for computability This work advancing precise characterizations of effective algorithmic computability was the culmination of intensive investigations into the foundations of mathematics In the decades since the theory of computability has moved to the center of discussions in philosophy computer science and cognitive science In this volume distinguished computer scientists mathematicians logicians and philosophers consider the conceptual foundations of computability in light of our modern understanding Some chapters focus on the pioneering work by Turing G del and Church including the Church Turing thesis and G del s response to Church s and Turing s proposals Other chapters cover more recent technical developments including computability over the reals G del s influence on mathematical logic and on recursion theory and the impact of work by Turing and Emil Post on our theoretical understanding of online and interactive computing and others relate computability and complexity to issues in the philosophy of mind the philosophy of science and the philosophy of mathematics ContributorsScott Aaronson Dorit Aharonov B Jack Copeland Martin Davis Solomon Feferman Saul Kripke Carl J Posy Hilary Putnam Oron Shagrir Stewart Shapiro Wilfried Sieg Robert I Soare Umesh V Vazirani   **Selected Logic Papers** Gerald E Sacks,1999-07-06 The author selects 23 of his papers in mathematical logic that pursue definability via priority forcing compactness and fine structure applied to classical recursion hyperarithmetic sets recursion in objects of finite type measure models and E recursion His general introduction provides a chronology both personal and technical   Logical Methods John N. Crossley,Jeffrey B. Remmel,Richard Shore,Moss E. Sweedler,2012-12-06 The twenty six papers in this volume reflect the wide and still expanding range of Anil Nerode s work A conference on Logical Methods was held in honor of Nerode s sixtieth birthday 4 June 1992 at the Mathematical Sciences Institute Cornell University 1 3 June 1992 Some of the conference papers are here but others are from students co workers and other colleagues The intention of the conference was to look forward and to see the directions currently being pursued in the development of work by or with Nerode Here is a brief summary of the contents of this book We give a retrospective view of Nerode s work A number of specific areas are readily discerned recursive equivalence types recursive algebra and model theory the theory of Turing degrees and r e sets polynomial time computability and computer science Nerode began with automata theory and has also taken a keen interest in the history of mathematics All these areas are represented The one area missing is Nerode s applied mathematical work relating to the environment Kozen s paper builds on Nerode s early work on automata Recursive equivalence types are covered by Dekker and Barback the latter using directly a fundamental metatheorem of Nerode Recursive algebra is treated by Ge Richards group representations Recursive model theory is the

subject of papers by Hird Moses and Khoussainov Dadajanov while a combinatorial problem in recursive model theory is discussed in Cherlin Martin s paper Cenzer presents a paper on recursive dynamics *Proceedings of the Logic Colloquium. Held in Aachen, July 18-23, 1983* M. M. Richter,E. Börger,W. Oberschelp,B. Schinzel,W. Thomas,2006-12-08

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