

Perspectives in Mathematical Logic

Gerald E. Sacks

**Higher Recursion
Theory**



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Higher Recursion Theory Perspectives In Mathematical Logic

C. T. Chong



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General Recursion Theory Jens E. Fenstad, 2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again In this volume the tenth publication in the Perspectives in Logic series Jens E Fenstad takes an axiomatic approach to present a unified and coherent account of the many and various parts of general recursion theory The main core of the book gives an account of the general theory of computations The author then moves on to show how computation theories connect with and unify other parts of general recursion theory Some mathematical maturity is required of the reader who is assumed to have some acquaintance with recursion theory This book is ideal for a second course in the subject

Proceedings Of The 13th Asian Logic Conference Xishun Zhao, Qi Feng, Byunghan Kim, Liang Yu, 2015-03-05 This volume provides a forum which highlights new achievements and overviews of recent developments of the thriving logic groups in the Asia Pacific region It contains papers by leading logicians and also some contributions in computer science logics and philosophic logics

Ordinal Definability and Recursion Theory: Volume 3 Alexander S. Kechris, Benedikt Löwe, John R. Steel, 2016-01-11 The proceedings of the Los Angeles Caltech UCLA Cabal Seminar were originally published in the 1970s and 1980s Ordinal Definability and Recursion Theory is the third in a series of four books collecting the seminal papers from

the original volumes together with extensive unpublished material new papers on related topics and discussion of research developments since the publication of the original volumes Focusing on the subjects of HOD and its Local Versions Part V and Recursion Theory Part VI each of the two sections is preceded by an introductory survey putting the papers into present context These four volumes will be a necessary part of the book collection of every set theorist

Recursion Theory Chi Tat Chong, Liang Yu, 2015-08-17 This monograph presents recursion theory from a generalized point of view centered on the computational aspects of definability A major theme is the study of the structures of degrees arising from two key notions of reducibility the Turing degrees and the hyperdegrees using techniques and ideas from recursion theory hyperarithmetic theory and descriptive set theory The emphasis is on the interplay between recursion theory and set theory anchored on the notion of definability The monograph covers a number of fundamental results in hyperarithmetic theory as well as some recent results on the structure theory of Turing and hyperdegrees It also features a chapter on the applications of these investigations to higher randomness

Fundamentals of Mathematical Logic Peter G. Hinman, 2018-10-08 This introductory graduate text covers modern mathematical logic from propositional first order and infinitary logic and Gödel's Incompleteness Theorems to extensive introductions to set theory model theory and recursion computability theory Based on the author's more than 35 years of teaching experience the book develops students intuition by presenting complex ideas in the simplest context for which they make sense The book is appropriate for use as a classroom text for self study and as a reference on the state of modern logic

Computational Prospects of Infinity: Presented talks Chi-Tat Chong, 2008 This volume is a collection of written versions of the talks given at the Workshop on Computational Prospects of Infinity held at the Institute for Mathematical Sciences from 18 June to 15 August 2005 It consists of contributions from many of the leading experts in recursion theory computability theory and set theory Topics covered include the structure theory of various notions of degrees of unsolvability algorithmic randomness reverse mathematics forcing large cardinals and inner model theory and many others

Abstract Recursion and Intrinsic Complexity Yiannis N. Moschovakis, 2018-12-06 Presents a new framework for the complexity of algorithms for all readers interested in the theory of computation

STACS 97 Rüdiger Reischuk, 1997-02-21 This book constitutes the refereed proceedings of the 14th Annual Symposium on Theoretical Aspects of Computer Science STACS 97 held in Lebeck Germany in February March 1997 The 46 revised full papers included were carefully selected from a total of 139 submissions also included are three invited full papers The papers presented span the whole scope of theoretical computer science Among the topics covered are in particular algorithms and data structures computational complexity automata and formal languages structural complexity parallel and distributed systems parallel algorithms semantics specification and verification logic computational geometry cryptography learning and inductive inference

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University of Singapore from 30 March until 30 April 2015 This special collection reports on important and recent interactions between the fields of Set Theory and Computation Theory This includes the new research areas of computational complexity in set theory randomness beyond the hyperarithmetic powerful extensions of Goodstein's theorem and the capturing of large fragments of set theory via elementary recursive structures Further chapters are concerned with central topics within Set Theory including cardinal characteristics Fra ss limits the set generic multiverse and the study of ideals Also Computation Theory which includes computable group theory and measure theoretic aspects of Hilbert's Tenth Problem A volume of this broad scope will appeal to a wide spectrum of researchers in mathematical logic

Machines, Computations, and Universality Jérôme Durand-Lose, Maurice Margenstern, 2007-08-23 This book constitutes the refereed proceedings of the 5th International Conference on Machines Computations and Universality MCU 2007 held in Orleans France September 2007 The 18 revised full papers presented together with nine invited papers cover Turing machines register machines word processing cellular automata tiling of the plane neural networks molecular computations BSS machines infinite cellular automata real machines and quantum computing

The Higher Infinite Akihiro Kanamori, 2008-11-23 Over the years this book has become a standard reference and guide in the set theory community It provides a comprehensive account of the theory of large cardinals from its beginnings and some of the direct outgrowths leading to the frontiers of contemporary research with open questions and speculations throughout

Sets and Proofs S. Barry Cooper, John K. Truss, 1999-06-17 First of two volumes providing a comprehensive guide to mathematical logic

Proceedings Of The 10th Asian Logic Conference Chi Tat Chong, Rodney G Downey, Qi Feng, Hirotaka Kikyo, Hiroakira Ono, Toshiyasu Arai, Jorg Brendle, 2009-12-01 The 10th Asian Logic Conference is part of the series of logic conferences inaugurated in Singapore in 1981 This meeting is held every three years and rotates among countries in the Asia Pacific region with interests in the broad area of logic including theoretical computer science It is now considered a major conference in this field and is regularly sponsored by the Association of Symbolic Logic This volume contains papers from the 10th meeting held in Kobe Japan

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Computability and Complexity Adam Day, Michael Fellows, Noam Greenberg, Bakhadyr Khoussainov, Alexander Melnikov, Frances Rosamond, 2016-11-30 This Festschrift is published in honor of Rodney G Downey eminent logician and computer scientist surfer and Scottish country dancer on the occasion of his 60th birthday The Festschrift contains papers and laudations that showcase the broad and important scientific leadership and mentoring

contributions made by Rod during his distinguished career The volume contains 42 papers presenting original unpublished research or expository and survey results in Turing degrees computably enumerable sets computable algebra computable model theory algorithmic randomness reverse mathematics and parameterized complexity all areas in which Rod Downey has had significant interests and influence The volume contains several surveys that make the various areas accessible to non specialists while also including some proofs that illustrate the flavor of the fields **Algorithmic Randomness and Complexity** Rodney G. Downey, Denis R. Hirschfeldt, 2010-10-29 Computability and complexity theory are two central areas of research in theoretical computer science This book provides a systematic technical development of algorithmic randomness and complexity for scientists from diverse fields **Techniques of Admissible Recursion Theory** C. T. Chong, 2006-12-08

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