

Theory Of Recursive Functions And Effective Computability

Hongru Du



Theory Of Recursive Functions And Effective Computability:

Theory of Recursive Functions and Effective Computability Hartley Rogers, 1967 **Theory of Recursive Functions and Effective Computability** Douglas Elliott Ashford, 1967 **Theory of recursive functions and effective computability** Rogers Jr Hartley, 1967 Computability Nigel Cutland, 1980-06-19 What can computers do in principle What are their inherent theoretical limitations These are questions to which computer scientists must address themselves The theoretical framework which enables such questions to be answered has been developed over the last fifty years from the idea of a computable function intuitively a function whose values can be calculated in an effective or automatic way This book is an introduction to computability theory or recursion theory as it is traditionally known to mathematicians Dr Cutland begins with a mathematical characterisation of computable functions using a simple idealised computer a register machine after some comparison with other characterisations he develops the mathematical theory including a full discussion of non computability and undecidability and the theory of recursive and recursively enumerable sets The later chapters provide an introduction to more advanced topics such as G del s incompleteness theorem degrees of unsolvability the Recursion theorems and the theory of complexity of computation Computability is thus a branch of mathematics which is of relevance also to computer scientists and philosophers Mathematics students with no prior knowledge of the subject and computer science students who wish to supplement their practical expertise with some theoretical background will find this book of use and interest *Introduction To The Theory Of Formal Languages* Dan A Simovici, 2024-05-17 Formal language theory is a theoretical discipline in computer science that plays a foundational role in areas such as compilers design programming language theory information transmission computational biology etc This unique volume is a succinct introduction to formal language theory suitable for an one semester course The main focus is on Chomsky s hierarchy of classes of languages ranging from regular languages to context free context sensitive and recursively enumerable languages These classes are presented using both generative methods grammars as well as various analytical methods including finite automata pushdown and linearly bounded automata and Turing machine The useful reference text contains a large number of exercises of various degree of difficulties and is intended as a textbook for an upper level undergraduate or a graduate course in formal languages **Theory Of Formal Languages With Applications** Richard L Tenney, Dan A Simovici, 1999-06-17 Formal languages provide the theoretical underpinnings for the study of programming languages as well as the foundations for compiler design They are important in such areas as the study of biological systems data transmission and compression computer networks etc This book combines an algebraic approach with algorithmic aspects and decidability results and explores applications both within computer science and in fields where formal languages are finding new applications It contains more than 600 graded exercises While some are routine many of the exercises are in reality supplementary material Although the book has been designed as a text for graduate and upper level undergraduate students the comprehensive

coverage of the subject makes it suitable as a reference for scientists remove remove *Encyclopaedia of Mathematics* M. Hazewinkel, 2013-12-01 **Some Recursive Function Theory and Certain of Its Related Topics** Albert Alkins Mullin, 1960 *The SAGE Encyclopedia of Theory in Science, Technology, Engineering, and Mathematics* James Mattingly, 2022-09-21 The SAGE Encyclopedia of Theory is a landmark work that examines theory in general and the broad split between the hard and soft sciences a split that is being re examined as approaches to scientific questions become increasingly multidisciplinary *Computability Theory, Semantics, and Logic Programming* Melvin Fitting, 1987 This book describes computability theory and provides an extensive treatment of data structures and program correctness The author covers topics of current interest such as the logic programming language PROLOG and its relation to the LISP type of language **Algorithmic Learning Theory**, 2004 **Theory of Computation (With Formal Languages)** R.B. Patel, Prem Nath, 2010 This book has very simple and practical approach to make the understood the concept of automata theory and languages well There are many solved descriptive problems and objective multiple choices questions which is a unique feature of this book The multiple choice questions provide a very good platform for the readers to prepare for various competitive exams **Classical Recursion Theory** P. Odifreddi, 1992-02-04 1988 marked the first centenary of Recursion Theory since Dedekind s 1888 paper on the nature of number Now available in paperback this book is both a comprehensive reference for the subject and a textbook starting from first principles Among the subjects covered are various equivalent approaches to effective computability and their relations with computers and programming languages a discussion of Church s thesis a modern solution to Post s problem global properties of Turing degrees and a complete algebraic characterization of many one degrees Included are a number of applications to logic in particular G del s theorems and to computer science for which Recursion Theory provides the theoretical foundation *Engineering Trustworthy Software Systems* Jonathan P. Bowen, Cláudio Gomes, Zhiming Liu, 2025-04-04 This book PSE 15584 constitutes the refereed proceedings of the 6th International School on Engineering Trustworthy Software Systems SETSS 2024 held in Chongqing China in April 14 21 2024 The 5 full papers and 2 short papers were carefully reviewed and selected from 7 submissions The proceedings focuses on Preparatory Course Introduction to Mathematical Logic and Logic of Programming Introduction to Digital Twins Theories of Contracts and Their Applications From Automata Models to Validated BCI Based Cooperative Control On the Viability of Rigorous Approaches to Human Cyber Physical Systems of Systems What Came First Math or Computing What Came First Math or Computing Software Engineering for Explainable AI Distribution Testing The New Frontier for Formal Methods The Theory of Recursively Presented Models Terrence Staples Millar, 1976 **"Scientia", rivista di scienza**, 1982 **Proceedings**, 1995 **Mathematical Logic** George Tourlakis, 2008-09-02 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

Algorithmic Learning Theory Setsuo Arikawa,1990

Fundamentals of Computation Theory Lothar Budach,1979

The book delves into Theory Of Recursive Functions And Effective Computability. Theory Of Recursive Functions And Effective Computability is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Theory Of Recursive Functions And Effective Computability, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Theory Of Recursive Functions And Effective Computability in Specific Contexts
 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Theory Of Recursive Functions And Effective Computability.

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