

GRADUATE TEXTS IN COMPUTER SCIENCE

A RECURSIVE INTRODUCTION TO THE THEORY OF COMPUTATION

CARL H. SMITH



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John C. Martin



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Theory of Computation Dexter C. Kozen, 2006-09-19 This textbook is uniquely written with dual purpose It covers core material in the foundations of computing for graduate students in computer science and also provides an introduction to some more advanced topics for those intending further study in the area This innovative text focuses primarily on computational complexity theory the classification of computational problems in terms of their inherent complexity The book contains an invaluable collection of lectures for first year graduates on the theory of computation Topics and features include more than 40 lectures for first year graduate students and a dozen homework sets and exercises

Automata and Computability Insights Anasooya Khanna, 2025-02-20 Automata and Computability Insights is a foundational textbook that delves into the theoretical underpinnings of computer science exploring automata theory formal languages and computability Authored by Dexter C Kozen this book provides a deep understanding of these concepts for students researchers and educators Beginning with a thorough introduction to formal languages and automata the book covers finite automata regular languages context free languages and context free grammars It offers insightful discussions on pushdown automata and their expressive power The book also explores decidability and undecidability including the Halting Problem and decision procedures providing a profound understanding of computational systems limitations and capabilities Advanced topics such as quantum computing oracle machines and hypercomputation push the boundaries of traditional computational models The book bridges theory and real world applications with chapters on complexity theory NP completeness and parallel and distributed computing This interdisciplinary approach integrates mathematical rigor with computer science concepts making it suitable for undergraduate and graduate courses Automata and Computability Insights is a valuable reference for researchers presenting complex topics clearly and facilitating engagement with numerous exercises and examples It equips readers with the tools to analyze and understand the efficiency of algorithms and explore open problems in theoretical computation

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Society,1994 **Subject Guide to Books in Print** ,1997 **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 Computation Erwin Engeler,1973 **Computational Learning Theory** David Helmbold,Bob Williamson,2003-06-29 This book constitutes the refereed proceedings of the 14th Annual and 5th European Conferences on Computational Learning Theory COLT EuroCOLT 2001 held in Amsterdam The Netherlands in July 2001 The 40 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 69 submissions All current aspects of computational learning and its applications in a variety of fields are addressed **Theory of Computation** Dexter C. Kozen,2009-10-12 This textbook is uniquely written with dual purpose It cover cores material in the foundations of computing for graduate students in computer science and also provides an introduction to some more advanced topics for those intending further study in the area This innovative text focuses primarily on computational complexity theory the classification of computational problems in terms of their inherent complexity The book contains an invaluable collection of lectures for first year graduates on the theory of computation Topics and features include more than 40 lectures for first year graduate students and a dozen homework sets and exercises **Whitaker's Books in Print** ,1998 *The Theory of Computation* Bernard M. E. Moret,1998 Taking a practical approach this modern introduction to the theory of computation focuses on the study of problem solving through computation in the presence of realistic resource constraints The Theory of Computation explores questions and methods that characterize theoretical computer science while relating all developments to practical issues in computing The book establishes clear limits to computation relates these limits to resource usage and explores possible avenues of compromise through approximation and randomization The book also provides an overview of current areas of research in theoretical computer science that are likely to have a significant impact on the practice of computing within the next few years

Computation and Logic in the Real World Barry S. Cooper, Benedikt Löwe, Andrea Sorbi, 2007-07-25 This book constitutes the refereed proceedings of the Third International Conference on Computability in Europe CiE 2007 held in Sienna Italy in June 2007 The 50 revised full papers presented together with 36 invited papers were carefully reviewed and selected from 167 submissions *American Book Publishing Record*, 1995

Introduction to the Theory of Computation Michael Sipser, 1997 Designed for researchers in advanced numerical methods or parallel computing this definitive reference focuses on solving large and sparse linear systems of equations using computers readers are provided with appropriate conceptual background information and hands on applications throughout the book

Introduction to Languages and the Theory of Computation John C. Martin, 2003 Introduction to Languages and the Theory of Computation is an introduction to the theory of computation that emphasizes formal languages automata and abstract models of computation and computability it also includes an introduction to computational complexity and NP completeness Through the study of these topics students encounter profound computational questions and are introduced to topics that will have an ongoing impact in computer science Once students have seen some of the many diverse technologies contributing to computer science they can also begin to appreciate the field as a coherent discipline A distinctive feature of this text is its gentle and gradual introduction of the necessary mathematical tools in the context in which they are used Martin takes advantage of the clarity and precision of mathematical language but also provides discussion and examples that make the language intelligible to those just learning to read and speak it The material is designed to be accessible to students who do not have a strong background in discrete mathematics but it is also appropriate for students who have had some exposure to discrete math but whose skills in this area need to be consolidated and sharpened

Computability and Complexity Neil D. Jones, 1997 Computability and complexity theory should be of central concern to practitioners as well as theorists Unfortunately however the field is known for its impenetrability Neil Jones's goal as an educator and author is to build a bridge between computability and complexity theory and other areas of computer science especially programming In a shift away from the Turing machine and Godel number oriented classical approaches Jones uses concepts familiar from programming languages to make computability and complexity more accessible to computer scientists and more applicable to practical programming problems According to Jones the fields of computability and complexity theory as well as programming languages and semantics have a great deal to offer each other Computability and complexity theory have a breadth depth and generality not often seen in programming languages The programming language community meanwhile has a firm grasp of algorithm design presentation and implementation In addition programming languages sometimes provide computational models that are more realistic in certain crucial aspects than traditional models New results in the book include a proof that constant time factors do matter for its programming oriented model of computation In contrast Turing machines have a counterintuitive constant speedup property that almost any program can be made to run faster by

any amount Its proof involves techniques irrelevant to practice Further results include simple characterizations in programming terms of the central complexity classes PTIME and LOGSPACE and a new approach to complete problems for NLOGSPACE PTIME NPTIME and PSPACE uniformly based on Boolean programs Foundations of Computing series *The American Mathematical Monthly* ,1991 Mathematical Reviews ,2007 Introduction to the Theory of Computation Michael Sipser,2005-02-15 This highly anticipated revision builds upon the strengths of the previous edition Sipser s candid crystal clear style allows students at every level to understand and enjoy this field Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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