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Advances in Computational Complexity Theory Jin-yi Cai,1993-01-01 Recent papers on computational complexity theory Contributions by some of the leading experts in the field This book will prove to be of lasting value in this fast moving field as it provides expositions not found elsewhere The book touches on some of the major topics in complexity theory and thus sheds light on this burgeoning area of research **Theory of Computational Complexity** Ding-Zhu Du,Ker-I Ko,2014-06-30 Praise for the First Edition complete up to date coverage of computational complexity theory the book promises to become the standard reference on computational complexity Zentralblatt MATH A thorough revision based on advances in the field of computational complexity and readers feedback the Second Edition of Theory of Computational Complexity presents updates to the principles and applications essential to understanding modern computational complexity theory The new edition continues to serve as a comprehensive resource on the use of software and computational approaches for solving algorithmic problems and the related difficulties that can be encountered Maintaining extensive and detailed coverage Theory of Computational Complexity Second Edition examines the theory and methods behind complexity theory such as computational models decision tree complexity circuit complexity and probabilistic complexity The Second Edition also features recent developments on areas such as NP completeness theory as well as A new combinatorial proof of the PCP theorem based on the notion of expander graphs a research area in the field of computer science Additional exercises at varying levels of difficulty to further test comprehension of the presented material End of chapter literature reviews that summarize each topic and offer additional sources for further study Theory of Computational Complexity Second Edition is an excellent textbook for courses on computational theory and complexity at the graduate level The book is also a useful reference for practitioners in the fields of computer science engineering and mathematics who utilize state of the art software and computational methods to conduct research **Unconventional Computing** Andrew Adamatzky,2018-08-26 This volume of the Encyclopedia of Complexity and Systems Science Second Edition is a unique collection of concise overviews of state of art theoretical and experimental findings prepared by the world leaders in unconventional computing Topics covered include bacterial computing artificial chemistry amorphous computing computing with Solitons evolution in materio immune computing mechanical computing molecular automata membrane computing bio inspired metaheuristics reversible computing sound and music computing enzyme based computing structural machines reservoir computing infinity computing biomolecular data structures slime mold computing nanocomputers analog computers DNA computing novel hardware thermodynamics of computation and quantum and optical computing Topics added to the second edition include social algorithms unconventional computational problems enzyme based computing inductive Turing machines reservoir computing Grossone Infinity computing slime mould computing biomolecular data structures parallelization of bio inspired unconventional computing and photonic computing Unconventional computing is a cross breed of computer science physics

mathematics chemistry electronic engineering biology materials science and nanotechnology The aims are to uncover and exploit principles and mechanisms of information processing in and functional properties of physical chemical and living systems with the goal to develop efficient algorithms design optimal architectures and manufacture working prototypes of future and emergent computing devices   *Computational Matter* Susan Stepney,Steen Rasmussen,Martyn Amos,2018-07-20 This book is concerned with computing in materio that is unconventional computing performed by directly harnessing the physical properties of materials It offers an overview of the field covering four main areas of interest theory practice applications and implications Each chapter synthesizes current understanding by deliberately bringing together researchers across a collection of related research projects The book is useful for graduate students researchers in the field and the general scientific reader who is interested in inherently interdisciplinary research at the intersections of computer science biology chemistry physics engineering and mathematics   **Computability and Complexity Theory** Steven Homer,Alan L. Selman,2013-03-09 The theory of computing provides computer science with concepts models and formalisms for reasoning about both the resources needed to carry out computa tions and the efficiency of the computations that use these resources lt provides tools to measure the difficulty of combinatorial problems both absolutely and in comparison with other problems Courses in this subject help students gain an alytic skills and enable them to recognize the limits of computation For these reasons a course in the theory of computing is usually required in the graduate computer science curriculum The barder question to address is which topics such a course should cover We believe that students should learn the fundamental models of computation the limitations of computation and the distinctions between feasible and intractable In particular the phenomena ofNP completeness and NP hardness have pervaded much of science and transformed computer science One option is to survey a large nurober of theoretical subjects typically focusing on automata and formal languages However these subjects are less important to theoretical computer sci ence and to computer science as a whole now than in the past Many students have taken such a course as part of their undergraduate education We chose not to take that route because computability and complexity theory are the subjects that we feel deeply about and that we believe are important for students to learn Furthermore a graduate course should be scholarly lt is better to treat important topics thoroughly than to survey the field   *Computational Complexity* Sanjeev Arora,Boaz Barak,2009-04-20 This beginning graduate textbook describes both recent achievements and classical results of computational complexity theory Requiring essentially no background apart from mathematical maturity the book can be used as a reference for self study for anyone interested in complexity including physicists mathematicians and other scientists as well as a textbook for a variety of courses and seminars More than 300 exercises are included with a selected hint set The book starts with a broad introduction to the field and progresses to advanced results Contents include definition of Turing machines and basic time and space complexity classes probabilistic algorithms interactive proofs cryptography quantum computation lower bounds for concrete

computational models decision trees communication complexity constant depth algebraic and monotone circuits proof complexity average case complexity and hardness amplification derandomization and pseudorandom constructions and the PCP theorem   Computational Complexity ,1998   **Concise Guide to Computation Theory** Akira Maruoka,2011-04-29 This textbook presents a thorough foundation to the theory of computation Combining intuitive descriptions and illustrations with rigorous arguments and detailed proofs for key topics the logically structured discussion guides the reader through the core concepts of automata and languages computability and complexity of computation Topics and features presents a detailed introduction to the theory of computation complete with concise explanations of the mathematical prerequisites provides end of chapter problems with solutions in addition to chapter opening summaries and numerous examples and definitions throughout the text draws upon the author s extensive teaching experience and broad research interests discusses finite automata context free languages and pushdown automata examines the concept universality and limitations of the Turing machine investigates computational complexity based on Turing machines and Boolean circuits as well as the notion of NP completeness   *The Nature of Computation* Cristopher Moore,Stephan Mertens,2011-08-12 Computational complexity is one of the most beautiful fields of modern mathematics and it is increasingly relevant to other sciences ranging from physics to biology But this beauty is often buried underneath layers of unnecessary formalism and exciting recent results like interactive proofs phase transitions and quantum computing are usually considered too advanced for the typical student This book bridges these gaps by explaining the deep ideas of theoretical computer science in a clear and enjoyable fashion making them accessible to non computer scientists and to computer scientists who finally want to appreciate their field from a new point of view The authors start with a lucid and playful explanation of the P vs NP problem explaining why it is so fundamental and so hard to resolve They then lead the reader through the complexity of mazes and games optimization in theory and practice randomized algorithms interactive proofs and pseudorandomness Markov chains and phase transitions and the outer reaches of quantum computing At every turn they use a minimum of formalism providing explanations that are both deep and accessible The book is intended for graduate and undergraduate students scientists from other areas who have long wanted to understand this subject and experts who want to fall in love with this field all over again

   Computational Complexity K. Wagner,G. Wechsung,2001-11-30   *Feasible Computations and Provable Complexity Properties* Juris Hartmanis,1978-01-01 An overview of current developments in research on feasible computations and a consideration of this area of research in relation to provable properties of complexity of computations The author begins by defining and discussing efficient reductions between problems and considers the families and corresponding complete languages of NL DCSL CSL P NP PTAPE EXPTIME and EXPTAPE Definitions and results are uniformly extended to computationally simpler natural families of languages such as NL P and CSL by using Log n tape bounded reductions The problem of determining what can and cannot be formally proven about running times of algorithms is discussed and related

to the problem of establishing sharp time bounds for one tape Turing machine computations and the inability to formally prove running times for algorithms is then related to the presence of gaps in the hierarchy of complexity classes The concluding discussion is on the possibility that the famous P NP problem is independent of the axioms of formal mathematical systems such as set theory *Computational Error and Complexity in Science and Engineering* Vangipuram Lakshmikantham,Syamal Kumar Sen,2005-03-04 The book Computational Error and Complexity in Science and Engineering pervades all the science and engineering disciplines where computation occurs Scientific and engineering computation happens to be the interface between the mathematical model problem and the real world application One needs to obtain good quality numerical values for any real world implementation Just mathematical quantities symbols are of no use to engineers technologists Computational complexity of the numerical method to solve the mathematical model also computed along with the solution on the other hand will tell us how much computation computational effort has been spent to achieve that quality of result Anyone who wants the specified physical problem to be solved has every right to know the quality of the solution as well as the resources spent for the solution The computed error as well as the complexity provide the scientific convincing answer to these questions Specifically some of the disciplines in which the book will be readily useful are i Computational Mathematics ii Applied Mathematics Computational Engineering Numerical and Computational Physics Simulation and Modelling Operations Research both deterministic and stochastic Computing Methodologies Computer Applications and Numerical Methods in Engineering Key Features Describes precisely ready to use computational error and complexity Includes simple easy to grasp examples wherever necessary Presents error and complexity in error free parallel and probabilistic methods Discusses deterministic and probabilistic methods with error and complexity Points out the scope and limitation of mathematical error bounds Provides a comprehensive up to date bibliography after each chapter Describes precisely ready to use computational error and complexity Includes simple easy to grasp examples wherever necessary Presents error and complexity in error free parallel and probabilistic methods Discusses deterministic and probabilistic methods with error and complexity Points out the scope and limitation of mathematical error bounds Provides a comprehensive up to date bibliography after each chapter **Mathematics and Computation** Avi Wigderson,2019-10-29 From the winner of the Turing Award and the Abel Prize an introduction to computational complexity theory its connections and interactions with mathematics and its central role in the natural and social sciences technology and philosophy Mathematics and Computation provides a broad conceptual overview of computational complexity theory the mathematical study of efficient computation With important practical applications to computer science and industry computational complexity theory has evolved into a highly interdisciplinary field with strong links to most mathematical areas and to a growing number of scientific endeavors Avi Wigderson takes a sweeping survey of complexity theory emphasizing the field s insights and challenges He explains the ideas and motivations leading to key models notions and results In particular he

looks at algorithms and complexity computations and proofs randomness and interaction quantum and arithmetic computation and cryptography and learning all as parts of a cohesive whole with numerous cross influences Wigderson illustrates the immense breadth of the field its beauty and richness and its diverse and growing interactions with other areas of mathematics He ends with a comprehensive look at the theory of computation its methodology and aspirations and the unique and fundamental ways in which it has shaped and will further shape science technology and society For further reading an extensive bibliography is provided for all topics covered Mathematics and Computation is useful for undergraduate and graduate students in mathematics computer science and related fields as well as researchers and teachers in these fields Many parts require little background and serve as an invitation to newcomers seeking an introduction to the theory of computation Comprehensive coverage of computational complexity theory and beyond High level intuitive exposition which brings conceptual clarity to this central and dynamic scientific discipline Historical accounts of the evolution and motivations of central concepts and models A broad view of the theory of computation s influence on science technology and society Extensive bibliography *Complexity and Approximation* Ding-Zhu Du,Jie Wang,2020-02-20 This Festschrift is in honor of Ker I Ko Professor in the Stony Brook University USA Ker I Ko was one of the founding fathers of computational complexity over real numbers and analysis He and Harvey Friedman devised a theoretical model for real number computations by extending the computation of Turing machines He contributed significantly to advancing the theory of structural complexity especially on polynomial time isomorphism instance complexity and relativization of polynomial time hierarchy Ker I also made many contributions to approximation algorithm theory of combinatorial optimization problems This volume contains 17 contributions in the area of complexity and approximation Those articles are authored by researchers over the world including North America Europe and Asia Most of them are co authors colleagues friends and students of Ker I Ko *Classical and New Paradigms of Computation and their Complexity Hierarchies* Benedikt Löwe,Boris Piwinger,Thoralf Räsch,2007-11-04 The notion of complexity is an important contribution of logic to theoretical computer science and mathematics This volume attempts to approach complexity in a holistic way investigating mathematical properties of complexity hierarchies at the same time as discussing algorithms and computational properties A main focus of the volume is on some of the new paradigms of computation among them Quantum Computing and Infinitary Computation The papers in the volume are tied together by an introductory article describing abstract properties of complexity hierarchies This volume will be of great interest to both mathematical logicians and theoretical computer scientists providing them with new insights into the various views of complexity and thus shedding new light on their own research **Theories of Computational Complexity** C. Calude,1988 This volume presents four machine independent theories of computational complexity which have been chosen for their intrinsic importance and practical relevance The book includes a wealth of results classical recent and others which have not been published before In developing the mathematics underlying the size

dynamic and structural complexity measures various connections with mathematical logic constructive topology probability and programming theories are established The facts are presented in detail Extensive examples are provided to help clarify notions and constructions The lists of exercises and problems include routine exercises interesting results as well as some open problems *Theory of Computation* Dexter C. Kozen,2010-10-21 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

Models of Computation John E. Savage,1998 This text focuses on finite problems and emphasizes concrete models of machines and programming styles Using problems defined over infinite domains and abstract machine models as models emphasis is given to concrete problems of the kind found in algorithms textbooks as well as machine models related to current technology The book integrates the theme of parallelism throughout the book for example circuits are presented as parallel machines and studies the exchanges between space time and other resources on a variety of machine models

Computational complexity theory Juris Hartmanis,1988 *Computational Complexity* Christos H. Padadimitriou,1994

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