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THEORY OF COMPUTING

A Gentle Introduction

Efim Kinber • Carl Smith

Theory Of Computing A Gentle Introduction

Benjamin C. Pierce



Theory Of Computing A Gentle Introduction:

Theory of Computing Efim Kinber, Carl H. Smith, 2000-01 *Theory of Computing* Efim Kinber, Carl Smith, 2012

Gentle Introduction to the Theory of Computing Zamir Bavel, 1995 Theory of Computing, 2000 **Quantum Computing** Eleanor G. Rieffel, Wolfgang H. Polak, 2011-03-04 A thorough exposition of quantum computing and the underlying concepts of quantum physics with explanations of the relevant mathematics and numerous examples The combination of two of the twentieth century s most influential and revolutionary scientific theories information theory and quantum mechanics gave rise to a radically new view of computing and information Quantum information processing explores the implications of using quantum mechanics instead of classical mechanics to model information and its processing Quantum computing is not about changing the physical substrate on which computation is done from classical to quantum but about changing the notion of computation itself at the most basic level The fundamental unit of computation is no longer the bit but the quantum bit or qubit This comprehensive introduction to the field offers a thorough exposition of quantum computing and the underlying concepts of quantum physics explaining all the relevant mathematics and offering numerous examples With its careful development of concepts and thorough explanations the book makes quantum computing accessible to students and professionals in mathematics computer science and engineering A reader with no prior knowledge of quantum physics but with sufficient knowledge of linear algebra will be able to gain a fluent understanding by working through the book Basic Category Theory for Computer Scientists Benjamin C. Pierce, 1991-08-07 Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science especially in programming language semantics domain theory and concurrency where it is already a standard language of discourse Assuming a minimum of mathematical preparation Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Four case studies illustrate applications of category theory to programming language design semantics and the solution of recursive domain equations A brief literature survey offers suggestions for further study in more advanced texts Contents Tutorial Applications Further Reading **Great Ideas in Computer Science, second edition** Alan W. Biermann, 1997-03-06 In Great Ideas in Computer Science A Gentle Introduction Alan Biermann presents the great ideas of computer science that together comprise the heart of the field He condenses a great deal of complex material into a manageable accessible form His treatment of programming for example presents only a few features of Pascal and restricts all programs to those constructions Yet most of the important lessons in programming can be taught within these limitations The student s knowledge of programming then provides the basis for understanding ideas in

compilation operating systems complexity theory noncomputability and other topics Whenever possible the author uses common words instead of the specialized vocabulary that might confuse readers Readers of the book will learn to write a variety of programs in Pascal design switching circuits study a variety of Von Neumann and parallel architectures hand simulate a computer examine the mechanisms of an operating system classify various computations as tractable or intractable learn about noncomputability and explore many of the important issues in artificial intelligence This second edition has new chapters on simulation operating systems and networks In addition the author has upgraded many of the original chapters based on student and instructor comments with a view toward greater simplicity and readability

Computer Science J. Glenn Brookshear, 2007 Introduction to Computer Science Computer Science An Overview Ninth Edition J Glenn Brookshear Marquette University Do you want your students to gain a fundamental understanding of the field of computer science Would you like them to be excited by the opportunities computing presents for further studies and future careers Computer Science An Overview delivers a foundational framework of what computer science is all about Each topic is presented with a historical perspective its current state and its future potential as well as ethical issues for students to consider This balanced realistic picture helps students see that their future success depends on a solid overview in the rapidly changing field of computer science Features A language independent introduction to computer science that uses C C and Java™ as example languages More than 1 000 Questions Exercises Chapter Review Problems and Social Issues questions that give students the opportunity to apply the concepts as they learn them Discussion of ethical and legal aspects of areas such as Internet security software engineering and database technology that brings to light the things students should know to be safe and responsible users of technology A Companion Website that includes practical exploration of topics from the text software simulators and more Available at aw.com/brookshear Check the front of the book for the access code that opens up the Companion Website and the valuable student resources for this book Six month access is included with all new books

Quantum Computational Number Theory Song Y. Yan, 2015-12-26 This book provides a comprehensive introduction to advanced topics in the computational and algorithmic aspects of number theory focusing on applications in cryptography Readers will learn to develop fast algorithms including quantum algorithms to solve various classic and modern number theoretic problems Key problems include prime number generation primality testing integer factorization discrete logarithms elliptic curve arithmetic conjecture and numerical verification The author discusses quantum algorithms for solving the Integer Factorization Problem IFP the Discrete Logarithm Problem DLP and the Elliptic Curve Discrete Logarithm Problem ECDLP and for attacking IFP DLP and ECDLP based cryptographic systems Chapters also cover various other quantum algorithms for Pell's equation principal ideal unit group class group Gauss sums prime counting function Riemann's hypothesis and the BSD conjecture Quantum Computational Number Theory is self contained and intended to be used either as a graduate text in computing communications and mathematics or as a basic reference in the

related fields Number theorists cryptographers and professionals working in quantum computing cryptography and network security will find this book a valuable asset

The Theory of Computer Science J. M. Brady, 1977 Cognitive Computing: Theory and Applications Vijay V Raghavan, Venkat N. Gudivada, Venu Govindaraju, C.R. Rao, 2016-09-10 Cognitive Computing Theory and Applications written by internationally renowned experts focuses on cognitive computing and its theory and applications including the use of cognitive computing to manage renewable energy the environment and other scarce resources machine learning models and algorithms biometrics Kernel Based Models for transductive learning neural networks graph analytics in cyber security neural networks data driven speech recognition and analytical platforms to study the brain computer interface Comprehensively presents the various aspects of statistical methodology Discusses a wide variety of diverse applications and recent developments Contributors are internationally renowned experts in their respective areas

Computational Number Theory and Modern Cryptography Song Y. Yan, 2013-01-29 The only book to provide a unified view of the interplay between computational number theory and cryptography Computational number theory and modern cryptography are two of the most important and fundamental research fields in information security In this book Song Y Yang combines knowledge of these two critical fields providing a unified view of the relationships between computational number theory and cryptography The author takes an innovative approach presenting mathematical ideas first thereupon treating cryptography as an immediate application of the mathematical concepts The book also presents topics from number theory which are relevant for applications in public key cryptography as well as modern topics such as coding and lattice based cryptography for post quantum cryptography The author further covers the current research and applications for common cryptographic algorithms describing the mathematical problems behind these applications in a manner accessible to computer scientists and engineers Makes mathematical problems accessible to computer scientists and engineers by showing their immediate application Presents topics from number theory relevant for public key cryptography applications Covers modern topics such as coding and lattice based cryptography for post quantum cryptography Starts with the basics then goes into applications and areas of active research Geared at a global audience classroom tested in North America Europe and Asia Includes exercises in every chapter Instructor resources available on the book's Companion Website Computational Number Theory and Modern Cryptography is ideal for graduate and advanced undergraduate students in computer science communications engineering cryptography and mathematics Computer scientists practicing cryptographers and other professionals involved in various security schemes will also find this book to be a helpful reference

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lessons in programming can be taught within these limitations The student s knowledge of programming then provides the basis for understanding ideas in compilation operating systems complexity theory noncomputability and other topics Whenever possible the author uses common words instead of the specialized vocabulary that might confuse readers Readers of the book will learn to write a variety of programs in Pascal design switching circuits study a variety of Von Neumann and parallel architectures hand simulate a computer examine the mechanisms of an operating system classify various computations as tractable or intractable learn about noncomputability and explore many of the important issues in artificial intelligence This second edition has new chapters on simulation operating systems and networks In addition the author has upgraded many of the original chapters based on student and instructor comments with a view toward greater simplicity and readability

Notes from the International Autumn School on Computational Number Theory Ilker Inam,Engin Büyükaşık,2019-04-17 This volume collects lecture notes and research articles from the International Autumn School on Computational Number Theory which was held at the Izmir Institute of Technology from October 30th to November 3rd 2017 in Izmir Turkey Written by experts in computational number theory the chapters cover a variety of the most important aspects of the field By including timely research and survey articles the text also helps pave a path to future advancements Topics include Modular forms L functions The modular symbols algorithm Diophantine equations Nullstellensatz Eisenstein series Notes from the International Autumn School on Computational Number Theory will offer graduate students an invaluable introduction to computational number theory In addition it provides the state of the art of the field and will thus be of interest to researchers interested in the field aswell

American Book Publishing Record ,2000-07

Proceedings of the ...ACM Symposium on Theory of Computing ,2003 Proceedings of the 35th Annual ACM Symposium on the Theory of Computing ,2003 *Supersymmetry DeMYSTiFied* Patrick LaBelle,2010-01-05 Unravel the mystery of SUPERSYMMETRY Trying to comprehend supersymmetry but feeling a bit off balance Grab hold of this straightforward guide and learn the fundamental concepts behind this revolutionary principle Covers supercharges SUPERFIELDS superspace SUSY breaking the minimal supersymmetric standard model and more LOADED with DETAILED examples ILLUSTRATIONS and explanations Perfect for SELF STUDY or as a classroom SUPPLEMENT COMPLETE with end of chapter QUIZZES and a FINAL EXAM Written in an easy to follow format Supersymmetry Demystified explains Weyl Majorana and Dirac spinors notations and supersymmetric lagrangians Supersymmetric charges and their algebra are discussed as are interactions and gauge theories The book also covers superspace formalism superfields supersymmetry breaking and much more Detailed examples clear illustrations and concise explanations make it easy to understand the material and end of chapter quizzes and a final exam help reinforce learning It s a no brainer You ll get An explanation of the Wess Zumino model Tips on how to build supersymmetric lagrangians Coverage of superspace and superfields A detailed presentation of the minimal supersymmetric standard model MSSM and some of its phenomenological implications Simple

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