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Dershowitz Michael Sipser De-Shuang Huang Millie Pant Arindama Singh De-Shuang Huang De-Shuang Huang W. W. Youden K. L. P. Mishra John C. Martin Michael Barr John Von Neumann Robert W. Floyd Derrick Wood Chris Bernhardt John Von Neumann

this text strikes a good balance between rigor and an intuitive approach to computer theory covers all the topics needed by computer scientists with a sometimes humorous approach that reviewers found refreshing the goal of the book is to provide a firm understanding of the principles and the big picture of where computer theory fits into the field

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

automata theory background languages recursive definitions regular expressions finite automata transition graphs kleene s theorem nondeterminism finite automata with output regular languages nonregular languages decidability pushdown automata theory context free grammars trees regular grammars chomsky normal form pushdown automata cfg pda context free languages non context free languages intersection and complement parsing decidability turing theory turing machines post machines minsky s theorem variations on the tm recursively enumerable languages the encoding of turing machines the chomsky hierarchy computers bibliography table of theorems

market desc computer scientists students professors special features easy to read and the coverage of mathematics is fairly simple so readers do not have to worry about proving theorems contains new coverage of context sensitive language about the book this text strikes a good balance between rigor and an intuitive approach to computer theory covers all the topics needed by computer scientists with a sometimes humorous approach that reviewers found refreshing the goal of the book is to provide a firm understanding of the principles and the big picture of where computer theory fits into the field

this festschrift volume is published in honor of yaacov choueka on the occasion of this 75th birthday the present three volumes liber amicorum several years in gestation honours this outstanding israeli computer scientist and is dedicated to him and to his scientific endeavours yaacov s research has had a major impact not only within the walls of academia but also in the daily life of lay users of such technology that originated from his research an especially amazing aspect of the temporal span of his scholarly work is that half a century after his influential research from the early 1960s a project in which he is currently involved is proving to be a sensation as will become apparent from what follows yaacov choueka began his research career in the theory of computer science dealing with basic questions regarding the relation between mathematical logic and automata theory from formal languages yaacov moved to natural languages he was a founder of natural language processing in israel developing numerous tools for hebrew he is best known for his primary role together with aviezri fraenkel in the development of the responsa project one of the earliest fulltext retrieval systems in the world more recently he has headed the friedberg genizah project which is bringing the treasures of the cairo genizah into the digital age this first part of the three volume set covers a range of topics in computer science the papers are grouped in topical sections on the jubilaris yaacov and his oeuvre theory of computation science computing and tools for engineering information retrieval

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

this two volume set of lncs 11643 and lncs 11644 constitutes in conjunction with the volume lnai 11645 the refereed proceedings of the 15th international conference on intelligent computing icic 2019 held in nanchang china in august 2019 the 217 full papers of the three proceedings volumes were carefully reviewed and selected from 609 submissions the icic theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications the theme for this conference is advanced intelligent computing methodologies and applications papers related to this theme are especially solicited including theories methodologies and applications in science and technology

this book focuses on soft computing and how it can be applied to solve real world problems arising in various domains ranging from medicine and healthcare to supply chain management image processing and cryptanalysis it gathers high

quality papers presented at the international conference on soft computing theories and applications socta 2019 organized by the national institute of technology patna india offering valuable insights into soft computing for teachers and researchers alike the book will inspire further research in this dynamic field

the foundation of computer science is built upon the following questions what is an algorithm what can be computed and what cannot be computed what does it mean for a function to be computable how does computational power depend upon programming constructs which algorithms can be considered feasible for more than 70 years computer scientists are searching for answers to such qu tions their ingenious techniques used in answering these questions form the theory of computation theory of computation deals with the most fundamental ideas of computer s ence in an abstract but easily understood form the notions and techniques employed are widely spread across various topics and are found in almost every branch of c puter science it has thus become more than a necessity to revisit the foundation learn the techniques and apply them with con dence overview and goals this book is about this solid beautiful and pervasive foundation of computer s ence it introduces the fundamental notions models techniques and results that form the basic paradigms of computing it gives an introduction to the concepts and mathematics that computer scientists of our day use to model to argue about and to predict the behavior of algorithms and computation the topics chosen here have shown remarkable persistence over the years and are very much in current use

the international conference on intelligent computing icic was formed to p vide an annual forum dedicated to the emerging and challenging topics in artificial intelligence machine learning bioinformatics and computational biology etc it aims to bring together researchers and practitioners from both academia and ind try to share ideas problems and solutions related to the multifaceted aspects of intelligent computing icic 2008 held in shanghai china september 15 18 2008 constituted the 4th international conference on intelligent computing it built upon the success of icic 2007 icic 2006 and icic 2005 held in qingdao kunming and hefei china 2007 2006 and 2005 respectively this year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications therefore the theme for this conference was emerging intelligent computing technology and applications papers focusing on this theme were solicited addressing theories methodologies and applications in science and technology

this volume in conjunction with the two volumes cics 0002 and lnai 4682 constitutes the refereed proceedings of the third international conference on intelligent computing held in qingdao china in august 2007 the 139 full papers published here were carefully reviewed and selected from among 2 875 submissions collectively these papers represent some of the most important findings and insights into the field of intelligent computing

introduction to languages and the theory of computationis 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

textbook for advanced undergraduates graduates and researchers in computing science and mathematics expounds the basic ideas and construction of category theory with examples from and applications to computing science the emphasis is on examples and on understanding the concepts rather than on formal proofs of the theorems annotation copyright

this volume brings together for the first time john von neumann s long out of print articles on computer architecture programming large scale computing and automata theory a number of significant papers in these areas that were not included in the multivolume john von neumann collected works 1963 have now been reprinted here these pioneering articles written between the mid 1940s and the mid 1950s are of enduring value not only to computer historians but to computer scientists at the vanguard of current research most of today s computers are still constructed in accordance with the von neumann architecture and his technique of flow charting remains basic in the domain papers of john von neumann on computers and computer theoryis volume 12 in the charles babbage institute reprint series for the history of computing

an up to date authoritative text for courses in theory of computability and languages the authors redefine the building blocks of automata theory by offering a single unified model encompassing all traditional types of computing machines and real world electronic computers this reformulation of computablity and formal language theory provides a framework for building a body of knowledge a solutions manual and an instructor s software disk are also available

presents easily accessible coverage of language theory concentrating on the major properties of the fundamental and automata models for languages focuses on practical applications such as finite automata and pattern matching regular expressions and text editing extended context free grammars and syntax diagrams simple and elegant proofs are given for theorems usually considered difficult e g parikh s theorem or the proof that every finite automata has an equivalent regular expression provides algorithms in a pascal like notation which complement discussions of constructions and programming each chapter includes a springboard section introducing topics for further investigation also provides short exercises and programming projects plus extensive examples

in 1936 when he was just twenty four years old alan turing wrote a remarkable paper in which he outlined the theory of computation laying out the ideas that underlie all modern computers this groundbreaking and powerful theory now forms the basis of computer science in turing s vision chris bernhardt explains the theory turing s most important contribution for the general reader bernhardt argues that the strength of turing s theory is its simplicity and that explained in a straightforward manner it is eminently understandable by the nonspecialist as marvin minsky writes the sheer simplicity of the theory s foundation and extraordinary short path from this foundation to its logical and surprising conclusions give the theory a mathematical beauty that alone guarantees it a permanent place in computer theory bernhardt begins with the foundation and systematically builds to the surprising conclusions he also views turing s theory in the context of mathematical history other views of computation including those of alonzo church turing s later work and the birth of the modern computer in the paper on computable numbers with an application to the entscheidungsproblem turing thinks carefully about how humans perform computation breaking it down into a sequence of steps and then constructs theoretical machines capable of performing each step turing wanted to show that there were problems that were beyond any computer s ability to solve in particular he wanted to find a decision problem that he could prove was undecidable to explain turing s ideas bernhardt examines three well known decision problems to explore the concept of undecidability investigates theoretical computing machines including turing machines explains universal machines and proves that certain problems are undecidable including

turing s problem concerning computable numbers

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Introduction

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