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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

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

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

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

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 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

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 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

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

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

there are several theories of programming the first usable theory often called hoare s logic is still probably the most widely known in it a specification is a pair of predicates a precondition and postcondition these and all technical terms will be defined in due course another popular and closely related theory by dijkstra uses the weakest precondition predicate transformer which is a function from programs and postconditions to preconditions lones s vienna development method has been used to advantage in some industries in it a specification is a pair of predicates as in hoare s logic but the second predicate is a relation temporal logic is yet another formalism that introduces some special operators and quantifiers to describe some aspects of computation the theory in this book is simpler than any of those just mentioned in it a specification is just a boolean expression refinement is just ordinary implication this theory is also more general than those just mentioned applying to both terminating and nonterminating computation to both sequential and parallel computation to both stand alone and interactive computation and it includes time bounds both for algorithm classification and for tightly constrained real time applications

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Introduction

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