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SWITCHING AND FINITE AUTOMATA THEORY

PARALLEL COMPUTER ORGANIZATION AND DESIGN

Cambridge University Press Teaching fundamental design concepts and the challenges of emerging technology, this textbook prepares students for a career designing the computer systems of the future. In-depth coverage of complexity, power, reliability and performance, coupled with treatment of parallelism at all levels, including ILP and TLP, provides the state-of-the-art training that students need. The whole gamut of parallel architecture design options is explained, from core microarchitecture to chip multiprocessors to large-scale multiprocessor systems. All the chapters are self-contained, yet concise enough that the material can be taught in a single semester, making it perfect for use in senior undergraduate and graduate computer architecture courses. The book is also teeming with practical examples to aid the learning process, showing concrete applications of definitions. With simple models and codes used throughout, all material is made open to a broad range of computer engineering/science students with only a basic knowledge of hardware and software.

DIGITAL DESIGN

PRINCIPLES AND PRACTICES

CD-ROM contains: Xilinx student edition foundation series software.

LEGAL INFORMATICS

Cambridge University Press This cutting-edge volume offers a theoretical and applied introduction to the emerging legal technology and informatics industry.

ALGEBRAIC AND STRUCTURAL AUTOMATA THEORY

Elsevier Automata Theory is part of computability theory which covers problems in computer systems, software, activity of nervous systems (neural networks), and processes of live organisms development. The result of over ten years of research, this book presents work in the following areas of Automata Theory: automata morphisms, time-varying automata, automata realizations and relationships between automata and semigroups. Aimed at those working in discrete mathematics and computer science, parts of the book are suitable for use in graduate courses in computer science, electronics, telecommunications, and control engineering. It is assumed that the reader is familiar with the basic concepts of algebra and graph theory.

THE ADAPTIVE WEB

METHODS AND STRATEGIES OF WEB PERSONALIZATION

Springer Science & Business Media This state-of-the-art survey provides a systematic overview of the ideas and techniques of the adaptive Web and serves as a central source of information for researchers, practitioners, and students. The volume constitutes a comprehensive and carefully planned collection of chapters that map out the most important areas of the adaptive Web, each solicited from the experts and leaders in the field.

THEORY OF AUTOMATA, FORMAL LANGUAGES AND COMPUTATION (AS PER UPTU SYLLABUS)

New Age International This Book Is Aimed At Providing An Introduction To The Basic Models Of Computability To The Undergraduate Students. This Book Is Devoted To Finite Automata And Their Properties. Pushdown Automata Provides A Class Of Models And Enables The Analysis Of Context-Free Languages. Turing Machines Have Been Introduced And The Book Discusses Computability And Decidability. A Number Of Problems With Solutions Have Been Provided For Each Chapter. A Lot Of Exercises Have Been Given With Hints/Answers To Most Of These Tutorial Problems.

MODEL-BASED TESTING OF REACTIVE SYSTEMS

ADVANCED LECTURES

Springer Science & Business Media Testing is the primary hardware and software verification technique used by industry today. Usually, it is ad hoc, error prone, and very expensive. In recent years, however, many attempts have been made to develop more sophisticated formal testing methods. This coherent book provides an in-depth assessment of this emerging field, focusing on formal testing of reactive systems. This book is based on a seminar held in Dagstuhl Castle, Germany, in January 2004. It presents 19 carefully reviewed and revised lectures given at the seminar in a well-balanced way ensuring competent complementary coverage of all relevant aspects. An appendix provides a glossary for model-based testing and basics on finite state machines and on labelled

transition systems. The lectures are presented in topical sections on testing of finite state machines, testing of labelled transition systems, model-based test case generation, tools and case studies, standardized test notation and execution architectures, and beyond testing.

SWITCHING THEORY AND LOGIC DESIGN

PHI Learning Pvt. Ltd. This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also be useful to AMIE, IETE and diploma students. Written in a student-friendly style, this book, now in its Second Edition, provides an in-depth knowledge of switching theory and the design techniques of digital circuits. Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts. Short questions with answers, review questions, fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help the students test their level of understanding of the subject and prepare for examinations confidently. NEW TO THIS EDITION • VHDL programs at the end of each chapter • Complete answers with figures • Several new problems with answers

MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES

John Wiley & Sons Market_Desc: · Physicists and Engineers· Students in Physics and Engineering Special Features: · Covers everything from Linear Algebra, Calculus, Analysis, Probability and Statistics, to ODE, PDE, Transforms and more· Emphasizes intuition and computational abilities· Expands the material on DE and multiple integrals· Focuses on the applied side, exploring material that is relevant to physics and engineering· Explains each concept in clear, easy-to-understand steps About The Book: The book provides a comprehensive introduction to the areas of mathematical physics. It combines all the essential math concepts into one compact, clearly written reference. This book helps readers gain a solid foundation in the many areas of mathematical methods in order to achieve a basic competence in advanced physics, chemistry, and engineering.

BASIC COMPUTER ARCHITECTURE

This book is a comprehensive text on basic, undergraduate-level computer architecture. It starts from theoretical preliminaries and simple Boolean algebra. After a quick discussion on logic gates, it describes three classes of assembly languages: a custom RISC ISA called SimpleRisc, ARM, and x86. In the next part, a processor is designed for the SimpleRisc ISA from scratch. This includes the combinational units, ALUs, processor, basic 5-stage pipeline, and a microcode-based design. The last part of the book discusses caches, virtual memory, parallel programming, multiprocessors, storage devices and modern I/O systems. The book's website has links to slides for each chapter and video lectures hosted on YouTube.

ADAPTIVE AND INTELLIGENT TEMPERATURE CONTROL OF MICROWAVE HEATING SYSTEMS WITH MULTIPLE SOURCES

KIT Scientific Publishing

INTRODUCTION TO ASYNCHRONOUS CIRCUIT DESIGN

This book is an introduction to the design of asynchronous circuits. It is an updated and significantly extended version of an eight-chapter tutorial that first appeared as Part I in the book "Principles of asynchronous circuit design -- A systems perspective" edited by Sparsø and Furber (2001); a book that has become a standard reference on the topic. The extensions include improved coverage of data-flow components, a new chapter on two-phase bundled-data circuits, a new chapter on metastability, arbitration, and synchronization, and a new chapter on performance analysis using timed Petri nets. With these extensions, the text now provides a more complete coverage of the topic, and it is now made available as a stand-alone book. The book is a beginner's text and the amount of formal notation is deliberately kept at a minimum, using instead plain English and graphical illustrations to explain the underlying intuition and reasoning behind the concepts and methods covered. The book targets senior undergraduate and graduate students in Electrical and Computer Engineering and industrial designers with a background in conventional (clocked) digital design who wish to gain an understanding of asynchronous circuit design.

DIGITAL DESIGN

Pearson Educación For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & Digital Design, fourth edition is a modern update of the classic authoritative text on digital design.& This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

PROBABILITY, STATISTICS, AND STOCHASTIC PROCESSES

John Wiley & Sons Praise for the First Edition ". . . an excellent textbook . . . well organized and neatly written." —Mathematical Reviews ". . . amazingly interesting . . ." —Technometrics Thoroughly updated to showcase the interrelationships between probability, statistics, and stochastic processes, Probability, Statistics, and Stochastic Processes, Second Edition prepares readers to collect, analyze, and characterize data in their chosen fields. Beginning with three chapters that develop probability theory and introduce the axioms of probability, random variables, and joint distributions, the book goes on to present limit theorems and simulation. The

authors combine a rigorous, calculus-based development of theory with an intuitive approach that appeals to readers' sense of reason and logic. Including more than 400 examples that help illustrate concepts and theory, the Second Edition features new material on statistical inference and a wealth of newly added topics, including: Consistency of point estimators Large sample theory Bootstrap simulation Multiple hypothesis testing Fisher's exact test and Kolmogorov-Smirnov test Martingales, renewal processes, and Brownian motion One-way analysis of variance and the general linear model Extensively class-tested to ensure an accessible presentation, Probability, Statistics, and Stochastic Processes, Second Edition is an excellent book for courses on probability and statistics at the upper-undergraduate level. The book is also an ideal resource for scientists and engineers in the fields of statistics, mathematics, industrial management, and engineering.

COMPUTATIONAL APPROACHES TO ECONOMIC PROBLEMS

Springer Science & Business Media This volume contains a selection of papers presented at the first conference of the Society for Computational Economics held at ICC Institute, Austin, Texas, May 21-24, 1995. Twenty-two papers are included in this volume, devoted to applications of computational methods for the empirical analysis of economic and financial systems; the development of computing methodology, including software, related to economics and finance; and the overall impact of developments in computing. The various contributions represented in the volume indicate the growing interest in the topic due to the increased availability of computational concepts and tools and the necessity of analyzing complex decision problems. The papers in this volume are divided into four sections: Computational methods in econometrics, Computational methods in finance, Computational methods for a social environment and New computational methods.£/LIST£

ASYNCHRONOUS CIRCUIT DESIGN

John Wiley & Sons With asynchronous circuit design becoming a powerful tool in thedevelopment of new digital systems, circuit designers are expectedto have asynchronous design skills and be able to leverage them toreduce power consumption and increase system speed. This book walksreaders through all of the different methodologies of asynchronouscircuit design, emphasizing practical techniques and real-worldapplications instead of theoretical simulation. The only guide ofits kind, it also features an ftp site complete with supportmaterials. Market: Electrical Engineers, Computer Scientists, DeviceDesigners, and Developers in industry. An Instructor Support FTP site is available from the Wileyeditorial department.

ARITHMETIC OPERATIONS IN DIGITAL COMPUTERS

Hassell Street Press This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

PRINCIPLES OF ELECTRICAL MACHINES

S. Chand Publishing For over 15 years "Principles of Electrical Machines is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

MECHANICS FOR ENGINEERING

Juta and Company Ltd This text introduces all the basic concepts of mechanics - from measurement accuracy, through the concepts of moments and equilibrium, gravity and friction to the application of momentum and impulse.

CLASSICAL AND NEW PARADIGMS OF COMPUTATION AND THEIR COMPLEXITY HIERARCHIES

PAPERS OF THE CONFERENCE "FOUNDATIONS OF THE FORMAL SCIENCES III"

Springer Science & Business Media 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.

POWER ELECTRONICS HANDBOOK

COMPONENTS, CIRCUITS AND APPLICATIONS

Elsevier Power Electronics Handbook: Components, Circuits, and Applications is a collection of materials about power components, circuit design, and applications. Presented in a practical form, theoretical information is given as formulae. The book is divided into three parts. Part 1 deals with the usual components found in power electronics such as semiconductor devices and power

semiconductor control components, their electronic compatibility, and protection. Part 2 tackles parts and principles related to circuits such as switches; link frequency chargers; converters; and AC line control, and Part 3 covers the applications for semiconductor circuits. The text is recommended for engineers and electricians who need a concise and easily accessible guide on power electronics.

ADVANCED MICROPROCESSORS & PERIPHERALS

Tata McGraw-Hill Education

TESTING OF DIGITAL SYSTEMS

Cambridge University Press Device testing represents the single largest manufacturing expense in the semiconductor industry, costing over $40 billion a year. The most comprehensive and wide ranging book of its kind, Testing of Digital Systems covers everything you need to know about this vitally important subject. Starting right from the basics, the authors take the reader through automatic test pattern generation, design for testability and built-in self-test of digital circuits before moving on to more advanced topics such as IDDQ testing, functional testing, delay fault testing, memory testing, and fault diagnosis. The book includes detailed treatment of the latest techniques including test generation for various fault models, discussion of testing techniques at different levels of integrated circuit hierarchy and a chapter on system-on-a-chip test synthesis. Written for students and engineers, it is both an excellent senior/graduate level textbook and a valuable reference.

DETECTION, ESTIMATION, AND MODULATION THEORY

RADAR-SONAR SIGNAL PROCESSING AND GAUSSIAN SIGNALS IN NOISE

Paperback reprint of one of the most respected classics in the history of engineering publicationTogether with the reprint of Part I and the new Part IV, this will be the most complete treatment of the subject availableProvides a highly-readable discussion of Signal Processing and NoiseFeatures numerous problems and illustrations to help promote understanding of the topicsContents are highly applicable to current systems

STRUCTURAL COMPLEXITY I

Springer Science & Business Media Since the achievement of a fonnal definition of the concept of "algorithm", the Mathematical Theory of Computation has developed into a broad and rich discipline. The notion of "complexity of an algorithm" yields an important area of research, known as Complexity Theory, that can be approached from several points of view. Some of these are briefly discussed in the Introduction and, in particular, our view of the "Structural" approach is outlined there. We feel the subject is mature enough to permit collecting and interrelating many of the results in book fonn. Let us point out that a substantial part of the knowledge in Structural Complexity Theory can be found only in specialized journals, symposia proceedings, and monographs like doctoral dissertations or similar texts, mostly unpublished. We believe that a task to be done soon is a systematization of the interconnections between all the research lines; this is a serious and long task. We hope that the two volumes of this book can serve as a starting point for this systematization process.

DATA CLUSTERING

THEORY, ALGORITHMS, AND APPLICATIONS

SIAM Cluster analysis is an unsupervised process that divides a set of objects into homogeneous groups. This book starts with basic information on cluster analysis, including the classification of data and the corresponding similarity measures, followed by the presentation of over 50 clustering algorithms in groups according to some specific baseline methodologies such as hierarchical, center-based, and search-based methods. As a result, readers and users can easily identify an appropriate algorithm for their applications and compare novel ideas with existing results. The book also provides examples of clustering applications to illustrate the advantages and shortcomings of different clustering architectures and algorithms. Application areas include pattern recognition, artificial intelligence, information technology, image processing, biology, psychology, and marketing. Readers also learn how to perform cluster analysis with the C/C++ and MATLAB programming languages.

DIGITAL DESIGN

WITH AN INTRODUCTION TO THE VERILOG HDL

Pearson Academic For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

DIGITAL LOGIC DESIGN

Elsevier New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. *A highly accessible, comprehensive and fully up to date digital systems text *A well known and respected text now revamped for current courses *Part of the Newnes suite of texts for HND/1st year modules

FORMAL LANGUAGES AND AUTOMATA THEORY

Oxford University Press, USA Theory of Automata is designed to serve as a textbook for undergraduate students of B..E, B.Tech.

CSE and MCA/IT. It attempts to help students grasp the essential concepts involved in automata theory.

SYMBOLIC MODEL CHECKING

Springer Science & Business Media Formal verification means having a mathematical model of a system, a language for specifying desired properties of the system in a concise, comprehensible and unambiguous way, and a method of proof to verify that the specified properties are satisfied. When the method of proof is carried out substantially by machine, we speak of automatic verification. Symbolic Model Checking deals with methods of automatic verification as applied to computer hardware. The practical motivation for study in this area is the high and increasing cost of correcting design errors in VLSI technologies. There is a growing demand for design methodologies that can yield correct designs on the first fabrication run. Moreover, design errors that are discovered before fabrication can also be quite costly, in terms of engineering effort required to correct the error, and the resulting impact on development schedules. Aside from pure cost considerations, there is also a need on the theoretical side to provide a sound mathematical basis for the design of computer systems, especially in areas that have received little theoretical attention.

THE CHEMISTRY AND BIOLOGY OF MINERALIZED TISSUES

PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON THE CHEMISTRY AND BIOLOGY OF MINERALIZED TISSUES, HELD IN CHATHAM, MASSACHUSETTS ON OCTOBER 16-21, 1988

CRC Press The proceedings of the Third International Conference (on title) held in Chatham, Mass., October, 1988. Presents coverage of many areas of the skeletal system, including new experimental techniques, research areas, ideas, and hypotheses. Discusses at length the chemical nature and structure of organic matrix components and their influence with respect to regulation of cell function. Annotation copyrighted by Book News, Inc., Portland, OR

WIRELESS INTERFACE TECHNOLOGIES FOR 3D IC AND MODULE INTEGRATION

Cambridge University Press Synthesising fifteen years of research, this authoritative text provides a comprehensive treatment of two major technologies for wireless chip and module interface design, covering technology fundamentals, design considerations and tradeoffs, practical implementation considerations, and discussion of practical applications in neural network, reconfigurable processors, and stacked SRAM. It explains the design principles and applications of two near-field wireless interface technologies for 2.5-3D IC and module integration respectively, and describes system-level performance benefits, making this an essential resource for researchers, professional engineers and graduate students performing research in next-generation wireless chip and module interface design.

RECENT DEVELOPMENTS AND THE NEW DIRECTION IN SOFT-COMPUTING FOUNDATIONS AND APPLICATIONS

SELECTED PAPERS FROM THE 7TH WORLD CONFERENCE ON SOFT COMPUTING, MAY 29-31, 2018, BAKU, AZERBAIJAN

This book gathers authoritative contributions in the field of Soft Computing. Based on selected papers presented at the 7th World Conference on Soft Computing, which was held on May 29-31, 2018, in Baku, Azerbaijan, it describes new theoretical advances, as well as cutting-edge methods and applications. New theories and algorithms in fuzzy logic, cognitive modeling, graph theory and metaheuristics are discussed, and applications in data mining, social networks, control and robotics, geoscience, biomedicine and industrial management are described. This book offers a timely, broad snapshot of recent developments, including thought-provoking trends and challenges that are yielding new research directions in the diverse areas of Soft Computing.

ADVANCED LOGICAL CIRCUIT DESIGN TECHNIQUES

Scholarly Title

THE BOOK OF WHY

THE NEW SCIENCE OF CAUSE AND EFFECT

Penguin UK A pioneer of artificial intelligence shows how the study of causality revolutionized science and the world 'Correlation does not imply causation.' This mantra was invoked by scientists for decades in order to avoid taking positions as to whether one thing caused another, such as smoking and cancer and carbon dioxide and global warming. But today, that taboo is dead. The causal revolution, sparked by world-renowned computer scientist Judea Pearl and his colleagues, has cut through a century of confusion and placed cause and effect on a firm scientific basis. Now, Pearl and science journalist Dana Mackenzie explain causal thinking to general readers for the first time, showing how it allows us to explore the world that is and the worlds that could have been. It is the essence of human and artificial intelligence. And just as Pearl's discoveries have enabled machines to think better, The Book of Why explains how we can think better.

COMPUTER LITERATURE BIBLIOGRAPHY

1946 TO 1963

A TEXTBOOK OF ELECTRICAL TECHNOLOGY - VOLUME III

S. Chand Publishing A textbook of Electrial Technology.In this edition,two new chapters have ben aded namely Rating & Service Capacity'and distribution Automation .The First chapter will be usefu to degree/diploma students underdoing their first course in

Electrical Drives.Italso contains many solved problems for the benefit of students.Another new chapter'istribution Automation' is a latest development in the field of Electrical Power System Engineering.Tillrecent years,stress was given on Generation and Transmission.

ARTIFICIAL IMMUNE SYSTEMS

5TH INTERNATIONAL CONFERENCE, ICARIS 2006, OEIRAS, PORTUGAL, SEPTEMBER 4-6, 2006, PROCEEDINGS

Springer Science & Business Media This book constitutes the refereed proceedings of the 5th International Conference on Artificial Immune Systems, ICARIS 2006. The book presents 34 revised full papers, are organized in topical sections on computer simulation of classical immunology, computer simulation of idiotypic network, immunoinformatics conceptual papers, pattern recognition type of application, optimization type of application, control and time-series type of application, danger theory inspired application, and text mining application.

ENERGY-EFFICIENT ELECTRIC MOTORS, REVISED AND EXPANDED

CRC Press This detailed reference provides guidelines for the selection and utilization of electric motors for improved reliability, performance, energy-efficiency, and life-cycle cost. Completely revised and expanded, the book reflects the recent state of the field, as well as recent developments in control electronics, the economics of energy-efficient motors and systems, and advanced power electronic drivers. It includes five new chapters covering key topics such as the fundamentals of power electronics applicable to electric motor drives, adjustable speed drives and their applications, advanced switched reluctance motor drives, and permanent magnet and brushless DC motor drives.