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2024-08-10

MACK CABRERA

The Control of Industrial Processes by Digital Techniques Elsevier
List of program examples. An introduction to the 6502 microprocessor. The 6502 microprocessor instruction set. Subroutines. Lists and look-up tables. Mathematical routines. Number-base conversion. Interrupts and resets. General-purpose input/output devices. Microcomputer input/output. ASCII character set (7-bit code).

C and the 8051 John Wiley & Sons

Modern Computer Arithmetic focuses on arbitrary-precision algorithms for efficiently performing arithmetic operations such as addition, multiplication and division, and their connections to topics such as modular arithmetic, greatest common divisors, the Fast Fourier Transform (FFT), and the computation of elementary and special functions. Brent and Zimmermann present algorithms that are ready to implement in your favourite language, while keeping a high-level description and avoiding too low-level or machine-dependent details. The book is intended for anyone interested in the design and implementation of efficient high-precision algorithms for computer arithmetic, and more generally efficient multiple-precision numerical algorithms. It may also be used in a graduate course in mathematics or computer science, for which exercises are included. These vary considerably in difficulty, from easy to small research projects, and expand on topics discussed in the text. Solutions to selected exercises are available from the authors.

6502 Software Design IEEE Computer Society

Presents 66 contributions from the July 2000 conference. The technical areas covered are multimedia systems, group communications, checkpointing and commitment, Web-based

computing, distributed shared memory, multicast, object-oriented programming, routing, fault tolerant systems, high performance databases, parallel systems, mobile systems, distributed algorithms, multi-agent systems, and parallel and distributed query processing. Annotation copyrighted by Book News, Inc., Portland, OR.

European Control Conference 1995 Springer Science & Business Media

This book presents a complete and accurate study of algebraic circuits, digital circuits whose performance can be associated with any algebraic structure. The authors distinguish between basic algebraic circuits, such as Linear Feedback Shift Registers (LFSRs) and cellular automata and algebraic circuits, such as finite fields or Galois fields. The book includes a comprehensive review of representation systems, of arithmetic circuits implementing basic and more complex operations and of the residue number systems (RNS). It presents a study of basic algebraic circuits such as LFSRs and cellular automata as well as a study of circuits related to Galois fields, including two real cryptographic applications of Galois fields.

Seventh International Conference on Parallel and Distributed Systems Algorithms and Complexity

This concise text is designed to present the recent advances in parallel and distributed architectures and algorithms within an integrated framework. Beginning with an introduction to the basic concepts, the book goes on discussing the basic methods of parallelism exploitation in computation through vector processing, super scalar and VLIW processing, array processing, associative processing, systolic algorithms, and dataflow computation. After introducing interconnection networks, it discusses parallel algorithms for sorting, Fourier transform, matrix algebra, and graph theory. The second part focuses on basics and selected

theoretical issues of distributed processing. Architectures and algorithms have been dealt in an integrated way throughout the book. The last chapter focuses on the different paradigms and issues of high performance computing making the reading more interesting. This book is meant for the senior level undergraduate and postgraduate students of computer science and engineering, and information technology. The book is also useful for the postgraduate students of computer science and computer application.

Technical Information from the Laboratories of Hewlett-Packard Company Sams Technical Publishing

Organized by the Inst. de Recherche d'Informat. et d'Automat. Under the sponsorship of: Assoc. Francaise pour la Cybernetique Econom. et Techn. (AFCET), Internat. Fed. of Automat. Control (IFAC), Techn. Committe of Theory

IECI Annual Conference Proceedings, 1976 IEEE

This totally reworked book combines two previous books with material on networking. It is a complete guide to programming and interfacing the 8051 microcontroller-family devices for embedded applications.

The Organisation, Design and Construction of Digital Control Systems Springer Nature

This book constitutes revised selected papers from the Third International Conference on Information and Communication Technology and Applications, ICTA 2020, held in Minna, Nigeria, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 67 full papers were carefully reviewed and selected from 234 submissions. The papers are organized in the topical sections on Artificial Intelligence, Big Data and Machine Learning; Information Security Privacy and Trust; Information Science and Technology.
Proceedings Springer

Another Calculus book? As long as students find calculus scary, the failure rate in mathematics is higher than in all other subjects, and as long as most people mistakenly believe that only geniuses can learn and understand mathematics, there will always be room for a new book of Calculus. We call it Calculus Light. This book is designed for a one semester course in "light" calculus - mostly single variable, meant to be used by undergraduate students without a wide mathematical background and who do not major in mathematics but study subjects such as engineering, biology or management information systems. The first chapter contains a historical background of calculus. Every scientific achievement involves people and therefore characterized by victories and disappointments, intrigues and hope. All of these elements exist in the story behind calculus and when you add the time dimension, starting 2400 years ago, it is a saga. We hope the reader enjoys reading this chapter as much as we enjoyed the writing. In addition to classic calculus the book provides tools for practical applications such as Fourier series, Lagrange multipliers and elementary numerical methods.

International Symposium on Systems Optimization and Analysis Elsevier Science Limited

Simplified Design of Data Converters shows how to design and experiment with data converters, both analog-to-digital and digital to analog. The design approach here is the same one used in all of John Lenk's best-selling books on simplified and practical design. Throughout the book, design problems start with guidelines for selecting all components on a trial-value basis, assuming a specific design goal and set of conditions. Then, using the guideline values in experimental circuits, the desired results are produced by varying the experimental component values, if needed. If you are a working engineer responsible for designing data-converters circuits, or selecting IC data converters, the variety of circuit configurations described here should generally simplify your task. Not only does the book describe converter-circuit designs, but it also covers the most popular forms of data-converter ICs available. Throughout the book, you will find a wealth of information on data-converter ICs and related components. For all skill levels. Tells how to design and build data-converter circuits from scratch.

EDN. Cengage Learning

Written for advanced study in digital systems design, Roth/John's

DIGITAL SYSTEMS DESIGN USING VHDL, 3E integrates the use of the industry-standard hardware description language, VHDL, into the digital design process. The book begins with a valuable review of basic logic design concepts before introducing the fundamentals of VHDL. The book concludes with detailed coverage of advanced VHDL topics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

International Journal of Mini & Microcomputers PHI Learning Pvt. Ltd.

Algorithms and Complexity Elsevier

11th Symposium on Computer Arithmetic, June 29-July 2, 1993, Windsor, Ontario PageFree Publishing, Inc.

Proceedings of the symposium held at Windsor, Ontario, Canada, June-July 1993. The 34 refereed papers address topics in number systems, residue arithmetic, multipliers and dot products, division and square root, elementary function evaluation, arithmetic processor design, algorithms, circuit technology, compilers and languages, and cryptography. Th

Microcontroller Theory and Applications with the PIC18F Krieger Publishing Company

The book provides many of the basic papers in computer arithmetic. These papers describe the concepts and basic operations (in the words of the original developers) that would be useful to the designers of computers and embedded systems.

Although the main focus is on the basic operations of addition, multiplication and division, advanced concepts such as logarithmic arithmetic and the calculations of elementary functions are also covered. This volume is part of a 3 volume set: Computer Arithmetic Volume I Computer Arithmetic Volume II Computer Arithmetic Volume III The full set is available for sale in a print-only version. Contents: Overview Addition Parallel Prefix Addition Multi-Operand

Addition Multiplication Division Logarithms Elementary Functions Floating-Point Arithmetic Readership: Graduate students and research professionals interested in computer arithmetic. Key Features: It reprints the classic papers It covers the basic arithmetic operations It does this in the words of the creators Keywords: Computer Arithmetic; Adders; Parallel Prefix Adders; Multi-operand Adders; Multipliers; Dividers; Logarithmic Arithmetic; Elementary Function Evaluation

Rocquencourt, December 11-13, 1978 Springer Nature

This first part presents chapters on models of computation, complexity theory, data structures, and efficient computation in many recognized sub-disciplines of Theoretical Computer Science. Harvard law review CRC Press

This is a book about numbers and how those numbers are represented in and operated on by computers. It is crucial that developers understand this area because the numerical operations allowed by computers, and the limitations of those operations, especially in the area of floating point math, affect virtually everything people try to do with computers. This book aims to fill this gap by exploring, in sufficient but not overwhelming detail, just what it is that computers do with numbers. Divided into two parts, the first deals with standard representations of integers and floating point numbers, while the second details several other number representations. Each chapter ends with exercises to review the key points. Topics covered include interval arithmetic, fixed-point numbers, floating point numbers, big integers and rational arithmetic. This book is for anyone who develops software including software engineering, scientists, computer science students, engineering students and anyone who programs for fun.

Algorithms for Computer Algebra Cambridge University Press
Proceedings of the European Control Conference 1995, Rome, Italy 5-8 September 1995

Journal of the Institution of Electronics and Telecommunication Engineers Springer Science & Business Media

Algorithms for Computer Algebra is the first comprehensive textbook to be published on the topic of computational symbolic mathematics. The book first develops the foundational material from modern algebra that is required for subsequent topics. It then presents a thorough development of modern computational algorithms for such problems as multivariate polynomial arithmetic and greatest common divisor calculations, factorization of multivariate polynomials, symbolic solution of linear and polynomial systems of equations, and analytic integration of elementary functions. Numerous examples are integrated into the text as an aid to understanding the mathematical development. The algorithms developed for each topic are presented in a Pascal-like computer language. An extensive set of exercises is presented at the end of each chapter. Algorithms for Computer

Algebra is suitable for use as a textbook for a course on algebraic algorithms at the third-year, fourth-year, or graduate level. Although the mathematical development uses concepts from modern algebra, the book is self-contained in the sense that a one-term undergraduate course introducing students to rings and fields is the only prerequisite assumed. The book also serves well as a supplementary textbook for a traditional modern algebra course, by presenting concrete applications to motivate the understanding of the theory of rings and fields.

Springer Science & Business Media

A thorough revision that provides a clear understanding of the basic principles of microcontrollers using C programming and PIC18F assembly language This book presents the fundamental concepts of assembly language programming and interfacing techniques associated with typical microcontrollers. As part of the second edition's revisions, PIC18F assembly language and C programming are provided in separate sections so that these topics can be covered independent of each other if desired. This extensively updated edition includes a number of fundamental

topics. Characteristics and principles common to typical microcontrollers are emphasized. Interfacing techniques associated with a basic microcontroller such as the PIC18F are demonstrated from chip level via examples using the simplest possible devices, such as switches, LEDs, Seven-Segment displays, and the hexadecimal keyboard. In addition, interfacing the PIC18F with other devices such as LCD displays, ADC, and DAC is also included. Furthermore, topics such as CCP (Capture, Compare, PWM) and Serial I/O using C along with simple examples are also provided. Microcontroller Theory and Applications with the PIC18F, 2nd Edition is a comprehensive and self-contained book that emphasizes characteristics and principles common to typical microcontrollers. In addition, the text: Includes increased coverage of C language programming with the PIC18F I/O and interfacing techniques Provides a more detailed explanation of PIC18F timers, PWM, and Serial I/O using C Illustrates C interfacing techniques through the use of numerous examples, most of which have been implemented successfully in the laboratory This new edition of Microcontroller Theory and Applications with the PIC18F is excellent as a text for

undergraduate level students of electrical/computer engineering and computer science.

Computer Arithmetic Springer

DIGITAL SYSTEMS DESIGN USING VERILOG integrates coverage of logic design principles, Verilog as a hardware design language, and FPGA implementation to help electrical and computer engineering students master the process of designing and testing new hardware configurations. A Verilog equivalent of authors Roth and John's previous successful text using VHDL, this practical book presents Verilog constructs side-by-side with hardware, encouraging students to think in terms of desired hardware while writing synthesizable Verilog. Following a review of the basic concepts of logic design, the authors introduce the basics of Verilog using simple combinational circuit examples, followed by models for simple sequential circuits. Subsequent chapters ask readers to tackle more and more complex designs. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.