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Basic Electronics
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Digital Image Processing and Analysis
A Textbook of Applied Electronics
Discrete Wavelet Transforms
Basic Electronics and Linear Circuits
Discrete Wavelet Transforms
Digital Electronics
A Textbook of Digital Electronics
Digital Logic and State Machine Design
DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS
FPGA-based Implementation of Signal Processing Systems
Signals, Systems and Communication
Computer Fundamentals & Programming in C
Fundamental of Digital Electronics And Microprocessors
BASIC ELECTRONICS
Digital Electronics
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An Introduction to Wavelet Analysis
Speech and Language Processing for Human-Machine Communications

EMILIO MATIAS

Digital Circuits And Design, 3E Palgrave Macmillan

Part of the McGraw-Hill Core Concepts Series, Modern Digital Electronics is an ideal textbook for a course on digital electronics at the undergraduate level. The text introduces digital systems and techniques through a bottom-up approach that allows users to start out with the basics of integrated circuits/circuit design and delve into topics such as digital design, flip flops, A/D and D/A. The book then moves on to explore elements of complex digital circuits with material like FPGAs, PLDs, PLAs, and more. Rich pedagogical features include review questions with answers, a glossary of key terms, a large number of solved examples, and numerous practice problems. This is a concise, less expensive alternative to other digital logic designs. This series is edited by Dick Dorf.

Digital Principles and Design Springer

This second edition of Data Structures Using C has been developed to provide a comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study of various data structures such as arrays, strings, linked lists, stacks, queues, trees, heaps, and graphs. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help readers test their knowledge.

Modern Digital Electronics Springer

This book explores the application of deep learning techniques within a particularly difficult computational type of computer vision (CV) problem – super-resolution (SR). The authors present and discuss ways to apply computational intelligence (CI) methods to SR. The volume also explores the possibility of using different kinds of CV techniques to develop and enhance the tools/processes related to SR. The application areas covered include biomedical engineering, healthcare applications, medicine, histology, and material science. The book will be a valuable reference for anyone concerned with multiple multimodal images, especially professionals working in remote sensing, nanotechnology and immunology at research institutes, healthcare facilities, biotechnology institutions, agribusiness services, veterinary facilities, and universities.

Computational Intelligence Methods for Super-Resolution in Image Processing Applications McGraw Hill Professional

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the International Conference on Industry Interactive Innovation in Science, Engineering and Technology

(I3SET 2016). The conference is a collective initiative of all departments and disciplines of JIS College of Engineering (an autonomous institution), Kalyani, West Bengal, India. The primary objective of the conference is to strengthen interdisciplinary research and encourage innovation in a demand-driven way as desired by the industry for escalating technology for mankind. A galaxy of academicians, professionals, scientists, industry people and researchers from different parts of the country and abroad shared and contributed their knowledge. The major areas of I3SET 2016 include nonconventional energy and advanced power systems; nanotechnology and applications; pattern recognition and machine intelligence; digital signal and image processing; modern instrumentation, control, robotics and automation; civil engineering and structural design; real-time and embedded systems, communication and devices; advanced optimization techniques; biotechnology, biomedical instrumentation and bioinformatics; and outcome based education.

Data Structures Using C John Wiley & Sons

* Experiments are linked to real applications. Students are likely to be interested and excited to learn more and explore. Example of experiments linked to real applications can be seen in Experiment 2, steps 6, 7, 15, and 16; Experiment 5, steps 6 to 10 and Experiment 7, steps 12 to 20.
* Self-contained background to all electronics experiments. Students will be able to follow without having taken an electronics course. Includes a self-contained introduction based on circuits only. For the instructor this provides flexibility as to when to run the lab. It can run concurrently with the first circuits analysis course.
* Review background sections are provided. This convenient text feature provides an alternative point of view; helps provide a uniform background for students of different theoretical backgrounds.
* A "touch-and-feel" approach helps to provide intuition and to make things "click". Rather than thinking of the lab as a set of boring procedures, students get the idea that what they are learning is real.
* Encourages students to explore and to ask "what if" questions. Helps students become active learners.
* Introduces students to simple design at a very early stage. Helps students see the relevance of what they are learning, and to become active learners.
* Helps students become tinkerers and to experiment on their own. Students are encouraged to become creative, and their mind is opened to new possibilities. This also benefits their subsequent professional work and/or graduate study.

Programming in C S. Chand Publishing

The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology; and ad hoc and ubiquitous computing.

Basic Electronics PHI Learning Pvt. Ltd.

A NATO advanced Study Institute took place at Bonas from June 14th to June 25th 1976 on "Digital Image Processing and Analysis". This book is the lasting result of a successful meeting, where the best specialists of the field could exchange their ideas and results. The papers are arranged so as to

present first the more general and tutorial articles and then the more specific ones on applications. The general topics cover two dimensional transforms, techniques of image restoration, recursive filters, segmentation and analysis of image parts, some points of view from psychology and physiology, and problems of software and processing. The application fields concerned are remote sensing, medical applications, TV image compression, and optical character recognition. The editors wish to thank the Scientific Affairs Division of NATO for the edition of this book. Acknowledgment: This ASI has been made possible by the financial support of the NATO Scientific Affairs Division and D. R. M. E. and the material support of IRIA and the Institut de Programmation. VII TABLE OF CONTENTS William K. Pratt Two dimensional unitary transforms 1 T. S. Huang Two-dimensional Fourier transform 23 T. S. Huang Algebraic methods of image restoration 41 S. Castan Image enhancement and restoration 47 T. S. Huang Film grain noise 63 K. G. Beauchamp Two-dimensional recursive digital filtering 69 S. Attasi A new approach to 2D-recursive filtering 81 V. Cappellini Some efficient two-dimensional recursive digital filters 87 T. S. Durrani and C. E.

Data Structures: A Pseudocode Approach with C Laxmi Publications

The present book has been thoroughly revised and lot of useful material has been added. Several photographs of electronic devices and their specifications sheets have been included. This will help the students to have a better understanding of the electronic devices and circuits from application point of view. The mistakes and misprints, which have crept in, have been eliminated in this edition.

Digital Image Processing and Analysis I K International Pvt Limited

An important working resource for engineers and researchers involved in the design, development, and implementation of signal processing systems. The last decade has seen a rapid expansion of the use of field programmable gate arrays (FPGAs) for a wide range of applications beyond traditional digital signal processing (DSP) systems. Written by a team of experts working at the leading edge of FPGA research and development, this second edition of FPGA-based Implementation of Signal Processing Systems has been extensively updated and revised to reflect the latest iterations of FPGA theory, applications, and technology. Written from a system-level perspective, it features expert discussions of contemporary methods and tools used in the design, optimization and implementation of DSP systems using programmable FPGA hardware. And it provides a wealth of practical insights—along with illustrative case studies and timely real-world examples—of critical concern to engineers working in the design and development of DSP systems for radio, telecommunications, audio-visual, and security applications, as well as bioinformatics, Big Data applications, and more. Inside you will find up-to-date coverage of: FPGA solutions for Big Data Applications, especially as they apply to huge data sets The use of ARM processors in FPGAs and the transfer of FPGAs towards heterogeneous computing platforms The evolution of High Level Synthesis tools—including new sections on Xilinx's HLS Vivado tool flow and Altera's OpenCL approach Developments in Graphical Processing Units (GPUs), which are rapidly replacing more traditional DSP systems FPGA-based Implementation of Signal Processing Systems, 2nd Edition is an indispensable guide for engineers and researchers involved in the design and development of both traditional and cutting-edge data and signal processing systems. Senior-level electrical and computer engineering graduates studying signal processing or digital signal processing also will find this volume of great interest.

A Textbook of Applied Electronics Pearson Education India

This second edition expands upon the solid, practical foundation established in the first edition of the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Discrete Wavelet Transforms S. Chand Publishing

A reprint of the classic text, this book popularized compact modeling of electronic and semiconductor devices and components for college and graduate-school classrooms, and manufacturing engineering, over a decade ago. The first comprehensive book on MOS transistor compact modeling, it was the most cited among similar books in the area and remains the most frequently cited today. The coverage is device-physics based and continues to be relevant to the latest advances in MOS transistor modeling. This is also the only book that discusses in detail how to measure device model parameters required for circuit simulations. The book deals with the MOS Field Effect Transistor (MOSFET) models that are derived from basic semiconductor theory. Various models are developed, ranging from simple to more sophisticated models that take into account new physical effects observed in submicron transistors used in today's (1993) MOS VLSI technology. The assumptions used to arrive at the models are emphasized so that the accuracy of the models in describing the device characteristics are clearly understood. Due to the importance of designing reliable circuits, device reliability models are also covered. Understanding these models is essential when designing circuits for state-of-the-art MOS ICs.

Basic Electronics and Linear Circuits Cengage Learning

The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The Basics Of Digital Technology Including The Design Asp

Discrete Wavelet Transforms Pearson Education India

Digital Systems: Principles and Design (For Anna University) is designed as an ideal textbook for students of electrical engineering. The book's coverage also meets the requirements of the Digital Electronics paper of the Electronics and Communication Engineering course, and of the Digital Principles and System Design paper of the Computer Science Engineering course. Spread across 18 chapters, the book covers digital fundamentals through worked-out examples and facilitates a firm understanding of the subject.

Digital Electronics Springer

Digital electronics is an interdisciplinary subject of electronics, electrical, information technology, computer science engineering and sciences domain. Digital Electronics has been written as per the syllabus of Digital Electronics, Digital Circuits and Logic Design of various universities like PTU, GNDU, PU, SLIET, DU, PEC, NITs and Thapar University. The book provides a comprehensive coverage of the fundamental aspects of digital electronics. It not only explores the theoretical and practical aspects of digital circuitry, but also gives a glimpse of experience and classroom interaction of the authors. Besides, the step-by-step methods to solve the digital system problems, it also includes the shortcut methods to digital approach for job interviews and competitive examinations. This book is invaluable for BE, B.Tech., B.Sc., M.Sc. (Computer Science/IT), M.Sc. (Physics), M.Sc. (Electronics), BCA, MCA, PGDCA and PGDIT students.

A Textbook of Digital Electronics Prentice Hall

Market_Desc: · Undergraduate and graduate level students of different universities Special Features: · Each chapter in the book, whether it is related to operational fundamentals or applications, is amply illustrated with diagrams and design examples· Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice questions (with answers) and other type of objective type questions (with answers)· Unlike most of the books in print on the subject that are either too brief, lacking in illustrated examples and examination-oriented study material, or too voluminous, containing lot of redundant material, the book has been written keeping in mind the topics taught in the subject and covers in entirety what is required by undergraduate and graduate level students of engineering in electrical, electronics, instrumentation and control, computer science and information technology disciplines About The Book: Digital Electronics is a precise and yet complete book covering both Digital Electronics Fundamentals and Integrated Circuits. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. Each chapter in the book is amply illustrated with diagrams and design examples. Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice and objective type questions (with answers). The book has up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, and microcontrollers. This valuable reference book provides in-depth information about multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits.

Digital Logic and State Machine Design John Wiley & Sons

This comprehensive and well-organized text discusses the fundamentals of electronic communication, such as devices and analog and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his wealth of knowledge and his years of teaching experience, compresses, within the covers of a single volume, all the aspects of electronics - both analog and digital - encompassing devices such as microprocessors, microcontrollers, fibre optics, and photonics. In so doing, he has struck a fine balance between analog and digital electronics. A distinguishing feature of the book is that it gives case studies in modern applications of electronics, including information technology, that is, DBMS, multimedia, computer networks, Internet, and optical communication. Worked-out examples, interspersed

throughout the text, and the large number of diagrams should enable the student to have a better grasp of the subject. Besides, exercises, given at the end of each chapter, will sharpen the student's mind in self-study. These student-friendly features are intended to enhance the value of the text and make it both useful and interesting.

DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS Springer Science & Business Media
Aims of the Book: The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study: 1. Diploma in Electronics and Communication Engineering (ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like City and Guilds of London Institute (CGLI). 2. B.E. (Elect. & Comm.)-4-year course offered by various Engineering Colleges. Efforts have been made to cover the papers: Electronics-I & II and Pulse and Digital Circuits. 3. B.Sc. (Elect.)-3-Year vocationalised course recently introduced by Approach.

FPGA-based Implementation of Signal Processing Systems Springer

Beginning with the basics of computers, the book provides an in-depth analysis of various constructs of C. The key topics include iterative and decision-control statements, functions, recursion, arrays, strings, pointers, structures and unions, and file management. It deals separately with the fundamental concepts of linked lists - the preferred data structure for dynamic allocation of memory. The book also includes a chapter on different searching and sorting algorithms and analysis of time and space complexity of algorithms.

Signals, Systems and Communication Prentice Hall

Often physics professionals are not comfortable using the mathematical tools that they learn in school, and this book discusses the mathematics that physics professionals need to master. This book provides the necessary tools and shows how to use those tools specifically in physics problems. (Midwest).

Computer Fundamentals & Programming in C McGraw-Hill Science/Engineering/Math

Computer Fundamentals and Programming in C is designed to serve as a textbook for the undergraduate students of engineering, computer science, computer applications, and information technology. The book seeks to provide a thorough overview of all the fundamental concepts related to computer science and programming. It lays down the foundation for all the advanced courses that a student is expected to learn in the following semesters.

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