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Information Systems Design and Intelligent Applications Springer Nature

The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Information System Design and Intelligent Applications (INDIA 2017) held at Duy Tan University, Da Nang, Vietnam during 15-17 June 2017. The book covers a wide range of topics of computer science and information technology discipline ranging from image processing, database application, data mining, grid and cloud computing, bioinformatics and many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been well applied in different domains for solving various challenging problems.

Digital Signal Processing Pearson Education India

This book comprises select peer-reviewed proceedings of the International Conference on Recent Developments in Sustainable Infrastructure (ICRDSI) 2019. The topics span over all major disciplines of civil engineering with regard to sustainable development of infrastructure and innovation in construction materials, especially concrete. The book covers numerical and analytical studies on various topics such as composite and sandwiched structures, green building, groundwater modeling, rainwater harvesting, soil dynamics, seismic resistance and control of structures, waste management, structural health monitoring, and geo-environmental engineering. This book will be useful for students, researchers and professionals working in sustainable technologies in civil engineering.

Circuit Analysis I Packt Pub Limited

This supplement to any standard DSP text is one of the first books to successfully integrate the use of MATLAB® in the study of DSP concepts. In this book, MATLAB® is used as a computing tool to

explore traditional DSP topics, and solve problems to gain insight. This greatly expands the range and complexity of problems that students can effectively study in the course. Since DSP applications are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful problems are explored. This updated second edition includes new homework problems and revises the scripts in the book, available functions, and m-files to MATLAB® V7.

Schaum's Outline of Signals and Systems Michael Adams

Offers an innovative and accessible new approach to the teaching of the fundamentals of semiconductor components by exploiting simulation to explain the mechanisms behind current in semiconductor structures. Simulation is a popular tool used by engineers and scientists in device and process research and the accompanying two dimensional process and device simulation software 'MicroTec', enables students to make their own devices and allows the recreation of real performance under varying parameters. There is also an accompanying ftp site containing ICECREAM software (Integrated Circuits and Electronics group Computerized Remedial Education And Mastering) which improves understanding of the physics involved and covers semiconductor physics, junction diodes, silicon bipolar and MOS transistors and photonic devices like LEDs and lasers. Features include: * MicroTec diskette containing a two-dimensional process and device simulator on which the many simulation exercises mentioned in the text can be performed thereby facilitating learning through experimentation * Computer aided education software (accessible vita ftp) featuring question and answer

games, which enables students to enhance their understanding of the physics involved and allows lecturers to set assignments * Broad coverage spanning the common devices: pn junctions, metal semiconductor junctions, photocells, lasers, bipolar transistors, and MOS transistors * Discussion of fundamental concepts and technological principles offering the student a valuable grounding in semiconductor physics * Examination of the implications of recent research on small dimensions, reliability problems and breakdown mechanisms. Semiconductor Devices Explained offers a comprehensive new approach to teaching the fundamentals of semiconductor components based on the use of the accompanying process and device simulation software. Simulation is a popular tool used by engineers and scientists in device and process research. It supports the understanding of basic phenomena by linking the theory to hands on applications and real world problems with semiconductor devices. Throughout the text students are encouraged to augment their understanding by undertaking simulations and creating their own devices. The ICECREAM programme (Integrated Circuits and Electronics group Computerized Remedial Education And Mastering) question and answer game leads students through the concepts of common devices and makes learning fun. There is also a self-test element in which a data bank generates questions on the fundamentals of semiconductor junctions enabling students to assess their progress. Larger projects suitable for use as examination assignments are also incorporated. The test package is freely available to

lecturers from the author on request. The remedial component of ICECREAM is available from the Wiley ftp site. MicroTec comes on a disk in the back of the book.

Digital Signal Processing Using MATLAB
Springer

This book presents the subject matter in a clear and concise manner with numerous diagrams and examples

Microelectronics, Electromagnetics and Telecommunications RAJATH PUBLISHERS

This introduction to the basic principles of electrical engineering teaches the fundamentals of electrical circuit analysis and introduces MATLAB - software used to write efficient, compact programs to solve mechanical engineering problems of varying complexity.

Semiconductor Devices Explained Pearson Education India

The GPS Signal - Biases and Solutions - The Framework - Receivers and Methods - Coordinates - Planning a Survey - Observing - Postprocessing - RTK and DGPS.

A Textbook of Electrical Technology Orchard Publications

The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical, electronics and communication engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical and electronics engineering under various Universities. Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc. This book is one among prescribed textbooks for the syllabus of BIT, Mesra, Ranchi.

Elasticity Nelson Books

The volume contains 94 best selected research papers presented at the Third International Conference on Micro Electronics, Electromagnetics and Telecommunications (ICMEET 2017) The conference was held during 09-10, September, 2017 at Department of Electronics and Communication Engineering, BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India. The volume includes original and application based research papers on microelectronics, electromagnetics, telecommunications, wireless communications, signal/speech/video processing and embedded systems.

SOA Approach to Integration McGraw-Hill

Digital Signal Processing, Second Edition enables electrical engineers and technicians in the fields of biomedical, computer, and electronics engineering to master the essential fundamentals of DSP principles

and practice. Many instructive worked examples are used to illustrate the material, and the use of mathematics is minimized for easier grasp of concepts. As such, this title is also useful to undergraduates in electrical engineering, and as a reference for science students and practicing engineers. The book goes beyond DSP theory, to show implementation of algorithms in hardware and software. Additional topics covered include adaptive filtering with noise reduction and echo cancellations, speech compression, signal sampling, digital filter realizations, filter design, multimedia applications, over-sampling, etc. More advanced topics are also covered, such as adaptive filters, speech compression such as PCM, u-law, ADPCM, and multi-rate DSP and over-sampling ADC. New to this edition: MATLAB projects dealing with practical applications added throughout the book New chapter (chapter 13) covering sub-band coding and wavelet transforms, methods that have become popular in the DSP field New applications included in many chapters, including applications of DFT to seismic signals, electrocardiography data, and vibration signals All real-time C programs revised for the TMS320C6713 DSK Covers DSP principles with emphasis on communications and control applications Chapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problems Website with MATLAB programs for simulation and C programs for real-time DSP

DIGITAL SIGNAL PROCESSING: PRINCIPLES ALGORITHMS AND APPLICATIONS S. Chand Publishing

This book is intended for use in teaching undergraduate courses on continuous-time and/or discrete-time signals and systems in engineering (and related) disciplines. It provides a detailed introduction to continuous-time and discrete-time signals and systems, with a focus on both theory and applications. The mathematics underlying signals and systems is presented, including topics such as: signal properties, elementary signals, system properties, continuous-time and discrete-time linear time-invariant systems, convolution, continuous-time and discrete-time Fourier series, the continuous-time and discrete-time Fourier transforms, frequency spectra, and the bilateral and unilateral Laplace and z transforms. Applications of the theory are also explored, including: filtering, equalization, amplitude modulation, sampling, feedback control systems, circuit analysis, Laplace-domain techniques for solving differential equations, and z-domain techniques for solving difference equations. Other supplemental material is also included, such as: a detailed introduction to MATLAB, a review of complex analysis, an introduction to partial fraction expansions, an exploration of time-domain techniques for solving differential equations, and

information on online video-lecture content for material covered in the book. Throughout the book, many worked-through examples are provided. Problem sets are also provided for each major topic covered.

ECG Signal Processing, Classification and Interpretation Academic Press

Microprocessor controlled railway signaling or commonly termed Electronic Interlocking is in operation from the late 1980s on the World Railways and introduced in India in the 1990s. It has replaced older relay based and electro-mechanical systems in phases. As software is present extensively in such systems, safety is of prime concern to the users, in addition to the requirements of reliability. Methods of ensuring safety and preventing hazards have been covered extensively in the book.

- Details of all the types of Electronic Interlocking systems installed on Indian Railways are illustrated.
- The advantage of a single processor with concurrent error detection compared to two out of two and two out of three modular systems in the matter of reliability, safety and economy has been discussed.
- Some methods of hazard analysis relevant to electronic systems have been dealt, with suggestions for improvement of components for safety and reliability.
- Verification of hardware and software with computer aided methods along with simulation has been described.
- Formal verification of railway interlocking with the application of theoretical computer science and software tools has been explained.
- Application of systems engineering to the operation and maintenance of electronic interlocking system for enhancing safety is covered in a separate chapter.

Handbook Of Experiments In Electronics A Apress

The book shows how the various paradigms of computational intelligence, employed either singly or in combination, can produce an effective structure for obtaining often vital information from ECG signals. The text is self-contained, addressing concepts, methodology, algorithms, and case studies and applications, providing the reader with the necessary background augmented with step-by-step explanation of the more advanced concepts. It is structured in three parts: Part I covers the fundamental ideas of computational intelligence together with the relevant principles of data acquisition, morphology and use in diagnosis; Part II deals with techniques and models of computational intelligence that are suitable for signal processing; and Part III details ECG system-diagnostic interpretation and knowledge acquisition architectures. Illustrative material includes: brief numerical experiments; detailed schemes, exercises and more advanced problems. Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma, Volume 2 Macmillan College

This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

Digital Signal Processing S. Chand Publishing
Adaptive filtering is useful in any application where the signals or the modeled system vary over time. The configuration of the system and, in particular, the position where the adaptive processor is placed generate different areas or application fields such as: prediction, system identification and modeling, equalization, cancellation of interference, etc. which are very important in many disciplines such as control systems, communications, signal processing, acoustics, voice, sound and image, etc. The book consists of noise and echo cancellation, medical applications, communications systems and others hardly joined by their heterogeneity. Each application is a case study with rigor that shows weakness/strength of the method used, assesses its suitability and suggests new forms and areas of use. The problems are becoming increasingly complex and applications must be adapted to solve them. The adaptive filters have proven to be useful in these environments of multiple input/output, variant-time behaviors, and long and complex transfer functions effectively, but fundamentally they still have to evolve. This book is a demonstration of this and a small illustration of everything that is to come.

Digital Signal Processing CRC Press
This authoritative book, highly regarded for its intellectual quality and contributions provides a solid foundation and life-long reference for anyone studying the most important methods of modern signal and system analysis. The major changes of the revision are reorganization of chapter material and the addition of a much wider range of difficulties.

Signals & Systems Routledge
Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma, Volume Two: Diagnosis, Therapeutic Targets and Molecular Mechanisms for Hepatocellular Carcinoma Progression provides comprehensive information about ongoing research and clinical data surrounding liver

cancer. The book presents detailed descriptions about diagnostics and therapeutic options for easy understanding, with a focus on precision medicine approaches to improve treatment outcomes. The volume discusses topics such as computational approaches for identification of biomarkers, enzymes and pathways of HCC, circulating and epigenetic biomarkers, drug resistance, metabolic pathways, and small molecule-target therapies. In addition, it discusses immunotherapies, immune check point inhibitors and nanotechnology-based therapies. This book is a valuable resource for cancer researchers, oncologists, graduate students, hepatologists and members of biomedical research who need to understand more about liver cancer to apply in their research work or clinical setting. Provides detailed information on traditional and novel diagnostic tools for hepatocellular carcinoma. Discusses promising targeted therapies, both available and in development, explaining the best option to use for specific cases. Brings recent findings in immunotherapies, immune checkpoint inhibitors and nanotechnology-based therapeutic approaches for treatment of HCC.

Fundamental of Microprocessors & its Application
Academic Press

After explaining the challenges, levels, and strategies of integration the book explains SOA, web services, and the Enterprise Services Bus before covering processing XML and web services on the .Net and JEE platforms in more detail. Then it covers BEPL and demonstrates service composition into business processes with a realistic, although simple example BPEL process. Finally it shows how ESB provides a concrete infrastructure for SOA. This book is for architects and senior developers who are responsible for setting up SOA for integration for applications within the enterprise (intra-enterprise integration) and applications across enterprises (inter-enterprise integration or B2B).

Digital Signal Processing McGraw Hill
Professional

This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way.
KEY FEATURES : Includes several fully worked-out examples to help students master the concepts involved. Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. Offers fill in the blanks and objective type questions with answers at the end of

each chapter to quiz students on key learning points. Gives chapter-end review questions and problems to assist students in reinforcing their knowledge.

Fundamentals of Electric Circuit Theory
Springer

World first Microprocessor INTEL 4004(a 4-bit Microprocessor) came in 1971 forming the series of first generation microprocessor. Science then with more and advancement in technology, there have been five Generations of Microprocessors. However the 8085, an 8-bit Microprocessor, is still the most popular Microprocessor. The present book provided a simple explanation about the Microprocessor, its programming and interfacing. The book contains the description, mainly of the 8-bit programmable Interrupt Interval Timer/Counter 8253, Programmable communication Interface 8251, USART 8251A and INTEL 8212/8155/8256/8755 and 8279.