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Proceedings of the 12th International Conference on Soft Computing for Problem Solving

Fundamentals of Electrical Engineering and Electronics

Pattern Recognition and Computer Vision

Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security

MOLECULAR STRUCTURE AND SPECTROSCOPY, Second Edition

SIGNALS AND SYSTEMS

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Modeling and Control of Power Electronics Converter System for Power Quality Improvements

Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology

Recent Trends in Communication and Electronics

Carbon Nanomaterial Electronics: Devices and Applications

Fundamental of Digital Electronics And Microprocessors

Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing

Modern Electronics Devices and Communication Systems

Science Reporter

Computer-Aided Developments: Electronics and Communication

Advances in Mechanical Engineering

Optical Electronics

Micro-Electronics and Telecommunication Engineering

Fundamentals of Electrical Engineering and Electronics (LPSPE)

Digital Electronics

Electronic Devices And Circuits

Machine Learning, Image Processing, Network Security and Data Sciences

Emerging Technology Trends in Electronics, Communication and Networking

Multidisciplinary Approach to Modern Digital Steganography
Proceedings of the 4th International Conference on Electronics, Biomedical
Engineering, and Health Informatics
Emerging Technology in Modelling and Graphics

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SYLVIA TALIAH

Proceedings of the 12th International
Conference on Soft Computing for
Problem Solving Springer Nature

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 Electrical Engineering
and Electronics Academic Press

This book covers theoretical and practical aspects of all major steps in the fabrication sequence. This book can be used conveniently in a semester length course on integrated circuit fabrication. This text can also serve as a reference for practicing engineer and scientist in the semiconductor industry. IC Fabrication are ever demanding of technology in rapidly growing industry growth opportunities are numerous. A recent survey shows that integrated circuit currently outnumber humans in UK, USA, India and China. The spectacular advances in the development and application of integrated circuit technology have led to the emergence of microelectronic process engineering as an independent discipline. Integrated circuit fabrication text books typically divide the fabrication sequence into a number of unit processes that are repeated to form the integrated circuit. The effect is to give the book an analysis flavor: a number of loosely related topics each with its own background material. Note: T& F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

Pattern Recognition and Computer Vision CRC Press

The book presents high-quality papers from the Fourth International Conference on Microelectronics and Telecommunication Engineering (ICMETE 2021). It discusses the latest

technological trends and advances in major research areas such as microelectronics, wireless communications, optical communication, signal processing, image processing, big data, cloud computing, artificial intelligence and sensor network applications. This book includes the contributions of national and international scientists, researchers, and engineers from both academia and the industry. The contents of this volume will be useful to researchers, professionals, and students alike.

Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security

Springer Nature

This book presents select and peer-reviewed proceedings of the International Conference on Smart Communication and Imaging Systems (MEDCOM 2021). The contents explore the recent technological advances in the field of next-generation electronics devices and communication systems. The topics include the design and development of smart, secure, and reliable future communication networks; satellite, radar, and microwave techniques for intelligent communication. The book also covers methods and applications of GIS and remote sensing; medical image analysis and its applications in smart health. This book can be useful for students, researchers, and professionals working in the field of communication systems and image processing.

MOLECULAR STRUCTURE AND SPECTROSCOPY, Second Edition PHI Learning Pvt. Ltd.

This comprehensive and unique book is intended to cover the vast and fast-growing field of electrical and electronic materials and their engineering in

accordance with modern developments. Basic and pre-requisite information has been included for easy transition to more complex topics. Latest developments in various fields of materials and their sciences/engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber-optics, high temperature superconductors, smart materials, ferromagnetic semiconductors etc. are covered. Illustrations and examples encompass different engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer, and their interdisciplinary branches. A variety of materials ranging from iridium to garnets, microelectronics, micro alloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail.

SIGNALS AND SYSTEMS Springer Nature

This book provides an insight on the importance that Internet of Things (IoT) and Information and Communication Technology (ICT) solutions can have in taking care of people's health. Key features of this book present the recent and emerging developments in various specializations in curing health problems and finding their solutions by incorporating IoT and ICT. This book presents useful IoT and ICT applications and architectures that cater to their improved healthcare requirements. Topics include in-home healthcare services based on the Internet-of-Things; RFID technology for IoT based personal healthcare; Real-time reporting and monitoring; Interfacing devices to IoT; Smart medical services; Embedded gateway configuration (EGC); Health monitoring infrastructure; and more. Features a number of practical solutions and applications of IoT and ICT on

healthcare; Includes application domains such as communication technology and electronic materials and devices; Applies to researchers, academics, students, and practitioners around the world.

Electromagnetic Theory And Applications In Beam-wave Electronics S. Chand Publishing

Multilevel Inverters: Conventional and Emerging Topologies and Their Control is written with two primary objectives: (a) explanation of fundamentals of multilevel inverters (MLIs) with reference to the general philosophy of power electronics; and (b) enabling the reader to systematically analyze a given topology with the possibility of contributing towards the ongoing evolution of topologies. The authors also present an updated status of current research in the field of MLIs with an emphasis on the evolution of newer topologies. In addition, the work includes a universal control scheme, with which any given topology can be modulated. Extensive qualitative and quantitative evaluations of emerging topologies give researchers and industry professionals suitable solutions for specific applications with a systematic presentation of software-based modeling and simulation, and an exploration of key issues. Topics covered also include power distribution among sources, voltage balancing, optimization switching frequency and asymmetric source configuration. This valuable reference further provides tools to model and simulate conventional and emerging topologies using MATLAB®/Simulink® and discusses execution of experimental set-up using popular interfacing tools. The book includes a Foreword by Dr. Frede Blaabjerg, Fellow IEEE, Professor and VILLUM Investigator, Aalborg University, Denmark. - Includes a

universal control scheme to help the reader learn the control of existing topologies and those which can be proposed in the future - Presents three new topologies. Systematic development of these topologies and subsequent simulation and experimental studies exemplify an approach to the development of newer topologies and verification of their working and experimental verification. - Contains a systematic and step-by-step approach to modelling and simulating various topologies designed to effectively employ low-power applications

Recent Trends in Communication and Electronics CRC Press

This Book extensive pruning of the solved Examples in the text. Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

Advances in Bioinformatics, Multimedia, and Electronics Circuits and Signals Springer Nature

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.

Proceedings of Second International Conference on Computational Electronics for Wireless Communications

Springer Nature

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Advanced Electrical and Electronics

Materials Cambridge University Press

This book constitutes refereed proceedings of the Third International Conference on Emerging Technology Trends in Electronics, Communication and Networking, ET2ECN 2020, held in Surat, India, in February 2020. The 17 full papers and 6 short papers presented were thoroughly reviewed and selected from 70 submissions. The volume covers a wide range of topics including electronic devices, VLSI design and fabrication, photo electronics, systems and applications, integrated optics, embedded systems, wireless communication, optical communication, free space optics, signal processing, image/ audio/ video processing, wireless sensor networks, next generation networks, network security, and many others.

Electricity and Magnetism with Electronics Springer Nature

□Fundamentals of Electrical Engineering and Electronics□ is a useful book for undergraduate students of electrical engineering and electronics as well as B.Sc. Electronics. The book discusses concepts such as Network Analysis, Capacitance, Electromagnetic Induction, Motors Circuits and Diodes in an easy to relate and thereby understand manner. Designed in accordance with the syllabi of most major universities, the book is an essential resource for anyone aspiring to learn the fundamentals and teaches students much about the subject itself. A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the most sought after texts by the students.

Bulletin of the Institution of Engineers (India). PHI Learning Pvt. Ltd.

This book comprises select proceedings

of the international conference ETAEERE 2020, and covers latest research in the areas of electronics, communication and computing. The book includes different approaches and techniques for specific applications using particle swarm optimization, Otsu's function and harmony search optimization algorithm, DNA-NAND gate, triple gate SOI MOSFET, micro-Raman and FTIR analysis, high-k dielectric gate oxide, spectrum sensing in cognitive radio, microstrip antenna, GPR with conducting surfaces, energy efficient packet routing, iBGP route reflectors, circularly polarized antenna, double fork shaped patch radiator, implementation of Doppler radar at 24 GHz, iris image classification using SVM, digital image forgery detection, secure communication, spoken dialog system, and DFT-DCT spreading strategies. Given the range of topics covered, this book can be useful for both students and researchers working in electronics and communication.

IoT and ICT for Healthcare Applications
Springer Nature

Steganography is the art of secret writing. The purpose of steganography is to hide the presence of a message from the intruder by using state-of-the-art methods, algorithms, architectures, models, and methodologies in the domains of cloud, internet of things (IoT), and the Android platform. Though security controls in cloud computing, IoT, and Android platforms are not much different than security controls in an IT environment, they might still present different types of risks to an organization than the classic IT solutions. Therefore, a detailed discussion is needed in case there is a breach in security. It is important to review the security aspects of cloud, IoT, and Android platforms related to steganography to determine

how this new technology is being utilized and improved continuously to protect information digitally. The benefits and challenges, along with the current and potential developments for the future, are important keystones in this critical area of security research.

Multidisciplinary Approach to Modern Digital Steganography reviews the security aspects of cloud, IoT, and Android platforms related to steganography and addresses emerging security concerns, new algorithms, and case studies in the field. Furthermore, the book presents a new approach to secure data storage on cloud infrastructure and IoT along with including discussions on optimization models and security controls that could be implemented. Other important topics include data transmission, deep learning techniques, machine learning, and both image and text stenography. This book is essential for forensic engineers, forensic analysts, cybersecurity analysts, cyber forensic examiners, security engineers, cybersecurity network analysts, cyber network defense analysts, and digital forensic examiners along with practitioners, researchers, academicians, and students interested in the latest techniques and state-of-the-art methods in digital steganography.

Advances in Electronics, Communication and Computing IGI Global

Intended for senior undergraduate students, a comprehensive account of optical electronics includes the basic principles concerning electromagnetic waves, laser theory, optical wave guides, fiber and integrated optics.

Basic Electronics John Wiley & Sons

This book presents the select proceedings of Congress on Advances in Materials Science and Engineering (CAMSE 2020). It focuses on the state-of-

the-art research, development, and commercial prospective of recent advances in mechanical engineering. The book covers various synthesis and fabrication routes of functional and smart materials for applications in mechanical engineering, manufacturing, physics, chemical and biological sciences, metrology, optimization and artificial intelligence among others. This book will be a useful resource for researchers, academicians as well as professionals interested in the highly interdisciplinary field of materials science and mechanical engineering.

Integrated Circuit Fabrication

Academic Press

Designed to serve as a textbook for postgraduate students of physics and chemistry, this second edition improves the clarity of treatment, extends the range of topics, and includes more worked examples with a view to providing all the material needed for a course in molecular spectroscopy—from first principles to the very useful spectral data that comprise figures, charts and tables. To improve the conceptual appreciation and to help students develop more positive and realistic impressions of spectroscopy, there are two new chapters—one on the spectra of atoms and the other on laser spectroscopy. The chapter on the spectra of atoms is a detailed account of the basic principles involved in molecular spectroscopy. The chapter on laser spectroscopy covers some new experimental techniques for the investigation of the structure of atoms and molecules. Additional sections on interstellar molecules, inversion vibration of ammonia molecule, fibre-coupled Raman spectrometer, Raman microscope, supersonic beams and jet-cooling have also been included. Besides

worked-out examples, an abundance of review questions, and end-of-chapter problems with answers are included to aid students in testing their knowledge of the material contained in each chapter. Solutions manual containing the complete worked-out solutions to chapter-end problems is available for instructors.

Crack UPSC in First Attempt Civil Services Exam IAS/IPS/IFS Seagull Books Pvt Ltd

The book covers cutting-edge and advanced research in modelling and graphics. Gathering high-quality papers presented at the First International Conference on Emerging Technology in Modelling and Graphics, held from 6 to 8 September 2018 in Kolkata, India, it addresses topics including: image processing and analysis, image segmentation, digital geometry for computer imaging, image and security, biometrics, video processing, medical imaging, and virtual and augmented reality.

Multilevel Inverters S. Chand Publishing
Internet usage has become a facet of everyday life, especially as more technological advances have made it easier to connect to the web from virtually anywhere in the developed world. However, with this increased usage comes heightened threats to security within digital environments. The Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security identifies emergent research and techniques being utilized in the field of cryptology and cyber threat prevention. Featuring theoretical perspectives, best practices, and future research directions, this handbook of research is a vital resource for professionals, researchers, faculty members, scientists, graduate students,

scholars, and software developers interested in threat identification and prevention.

Principles of Electronics [LPSPE]

Springer Nature

This book includes high-quality papers presented at Second International Conference on Computational Electronics for Wireless Communications (ICWC 2022), held at National Institute of Technology, Surathkal, Karnataka,

India, during June 9 – 10, 2022. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics, and wireless networks.