

Premkumar Basic Electric Engineering

Advanced Nanomaterials
 Basic Electrical and Electronics Engineering:
 A Textbook of Applied Electronics
 Proceedings of First International Conference on Computational Electronics for Wireless Communications
 Recent Advancements in System Modelling Applications
 Residue Number Systems
 Futuristic Sustainable Energy & Technology
 Natural Language Processing with AWS AI Services
 Technology Innovation in Mechanical Engineering
 Optical and Wireless Technologies
 Practical Troubleshooting of Electrical Equipment and Control Circuits
 Intelligent Control of Robotic Systems
 Advances in VLSI, Communication, and Signal Processing
 Single-Photon Generation and Detection
 Innovations in Electronics and Communication Engineering
 Basic Electrical, Electronics and Computer Engineering
 Coherence and Quantum Optics VI
 Nanoelectronics, Circuits and Communication Systems
 Smart Grids and Green Energy Systems
 Intelligent and Efficient Electrical Systems
 Multilevel Converters: Control Techniques for Renewable Energy Resources
 Operations Research
 Basic Electrical & Electronics Engineering
 Electric Circuit Theory
 Advances in Communication Systems and Networks
 Power Electronics and Renewable Energy Systems
 Advances in Smart Grid Technology
 Metaheuristic Algorithms in Industry 4.0
 Computational Methodologies for Electrical and Electronics Engineers
 Advances in Electrical and Computer Technologies
 The Palgrave Handbook of Managing Continuous Business Transformation
 Roots and Wings
 Basic Electrical and Electronics Engineering
 NCERT Solutions Mathematics 12th
 Intelligent Autonomous Systems
 Basic Electrical and Electronics Engineering
 Basic Electric Circuit Theory
 Problems in Operation Research (Principles & Solution)
 Power Systems & Smart Energies

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MARQUISE ESTRELLA

Advanced Nanomaterials Springer Nature

We take great pleasure in presenting to the readers the second thoroughly revised edition of the book after a number of reprints. The suggestions received from the readers have been carefully incorporated in this edition and almost the entire subject matter has been reorganised, revised and rewritten.

Basic Electrical and Electronics Engineering: Springer

This research book contains a sample of most recent research in the area of intelligent autonomous systems. The contributions include: General aspects of intelligent autonomous systems
 Design of intelligent autonomous robots Biped robots Robot for stair-case navigation Ensemble learning for multi-source information fusion Intelligent autonomous systems in psychiatry
 Condition monitoring of internal combustion engine Security management of an enterprise network High dimensional neural nets and applications This book is directed to engineers, scientists, professor and the undergraduate/postgraduate students who wish to explore this field further.

A Textbook of Applied Electronics Pearson Education India
 In this first comprehensive compilation of review chapters on this hot topic, more than 30 experts from around the world provide in-depth chapters on their specific areas of expertise, covering such essential topics as: * Block Copolymer Systems, Nanofibers and Nanotubes * Helical Polymer-Based Supramolecular Films * Synthesis of Inorganic Nanotubes * Gold Nanoparticles and Carbon Nanotubes * Recent Advances in Metal Nanoparticle-Attached Electrodes * Oxidation Catalysis by Nanoscale Gold, Silver, and Copper * Concepts in Self-Assembly * Nanocomposites * Amphiphilic Poly(Oxyalkylene)-Amines * Mesoporous Alumina * Nanoceramics for Medical Applications * Ecological Toxicology of Engineered Carbon Nanoparticles * Molecular Imprinting * Near-Field Raman Imaging of Nanostructures and Devices * Fullerene-Rich Nanostructures * Interactions of Carbon Nanotubes with Biomolecules * Nanoparticle-Cored Dendrimers and Hyperbranched Polymers * Nanostructured Organogels via Molecular Self-Assembly * Structural DNA Nanotechnology With its coverage of all such important areas as self-assembly, polymeric materials, bionanomaterials, nanotubes, photonic and environmental aspects, this is an essential reference for materials scientists, engineers, chemists, physicists and biologists wishing to gain an in-depth knowledge of all the disciplines involved.

Proceedings of First International Conference on Computational Electronics for Wireless Communications
 Elsevier

The book presents selected, extended and peer reviewed papers

from the International Multiconference on System, Automation and Control held Leipzig in 2016. These are complemented with solicited contributions by international experts. This volume is devoted to power electronics in renewable energy systems as well as to hybrid renewable energy systems.

Recent Advancements in System Modelling Applications
 Arihant Publications India limited

Basic Electrical and Electronics Engineering
 Basic Electrical, Electronics and Computer Engineering
 Basic Electrical & Electronics Engineering
 Intelligent Control of Robotic Systems
 CRC Press

Residue Number Systems S. Chand Publishing
 This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

Futuristic Sustainable Energy & Technology CRC Press
 Are you wondering if engineering, science, or business will work as a career choice for a young woman? Do you question if a woman can pursue a successful career in these fields while enjoying a satisfying family life and still find a way to make meaningful social contributions? Then this book, which chronicles the lives and careers of women who managed to do just that, is the one for you. These 29 women all graduated from the oldest engineering college in India sometime between 1943 and 1971.

This was a difficult time for these pioneering women to pursue their chosen path, yet they all went on to make their mark in their unique ways in various fields of work in India as well as the USA. Overcoming several obstacles to their careers, they managed to find a good balance between family and work. A few were, and are, also great community leaders. Their lives are models of courage, initiative, perseverance, innovation, entrepreneurship, resilience and flexibility. Enjoy the stories of these courageous women and be inspired.

Natural Language Processing with AWS AI Services Springer

This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management, electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

Technology Innovation in Mechanical Engineering Springer

The conference, held at the U. of Rochester in June 1989, was a sequel to five earlier meetings in this series, held in 1960, 1966, 1972, 1977 and 1983. This volume contains abbreviated versions of most of the 252 papers presented, addressing such topics as laser spectroscopy, photon statistics, pha

Optical and Wireless Technologies CRC Press

This book comprises select peer-reviewed papers from the International Conference on VLSI, Communication and Signal processing (VCAS) 2019, held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India. The contents focus on latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book also discusses the emerging applications of novel tools and techniques in image, video and multimedia signal processing. This book will be useful to students, researchers and professionals working in the electronics and communication domain.

Practical Troubleshooting of Electrical Equipment and Control Circuits Springer Nature

Futuristic Sustainable Energy and Technology provides a structured overview of the concept of Futuristic Sustainable Energy and Technology. It also explores the promotion of the sustainable development of renewable energy from the perspectives of technology, modelling, application, sustainability and policy. This book is dedicated to the advancement of energy efficiency to mitigate consumption, ensure and replenish, expand

and reuse elective energy supplies, and to replicate the damage caused by previous energy initiatives. This book has offered a large stage of experimentation for practitioners, experts, researchers and teachers to incorporate and analyze their latest developments, as well as the trends and difficulties encountered and the ongoing evolution of the stage in these areas.

Intelligent Control of Robotic Systems Springer

This is the only book on the market that has been conceived and deliberately written as a one-semester text on basic electric circuit theory. As such, this book employs a novel approach to the exposition of the material in which phasors and ac steady-state analysis are introduced at the beginning. This allows one to use phasors in the discussion of transients excited by ac sources, which makes the presentation of transients more comprehensive and meaningful. Furthermore, the machinery of phasors paves the road to the introduction of transfer functions, which are then used in the analysis of transients and the discussion of Bode plots and filters. Another salient feature of the text is the consolidation into one chapter of the material concerned with dependent sources and operational amplifiers. Dependent sources are introduced as linear models for transistors on the basis of small signal analysis. In the text, PSpice simulations are prominently featured to reinforce the basic material and understanding of circuit analysis. Key Features * Designed as a comprehensive one-semester text in basic circuit theory * Features early introduction of phasors and ac steady-state analysis * Covers the application of phasors and ac steady-state analysis * Consolidates the material on dependent sources and operational amplifiers * Places emphasis on connections between circuit theory and other areas in electrical engineering * Includes PSpice tutorials and examples * Introduces the design of active filters * Includes problems at the end of every chapter * Priced well below similar books designed for year-long courses

Advances in VLSI, Communication, and Signal Processing Springer Science & Business Media

This handbook provides a comprehensive and unparalleled reference point for studying continuous business transformation. Asserting that change will be the new normal and highlighting the fact that business transformation can never be complete, this important resource is a tool for coping with ongoing change in order to become and stay resilient, the predominant concern of executives across industries. Containing case study material to illustrate issues and solutions, The Palgrave Handbook of Managing Continuous Business Transformation takes an interdisciplinary approach weaving together strategic concepts with real-life experiences, connecting human resource issues with shifts in information technology and linking customers with the businesses from which they buy. Structured into four parts; transformational shifts, achieving customer centricity, dealing with new technology and leading the change, this handbook is crucial reading for academics, scholars and practitioners of business transformation.

Single-Photon Generation and Detection Springer Nature

This book presents the selected peer-reviewed papers from the International Conference on Communication Systems and Networks (ComNet) 2019. Highlighting the latest findings, ideas, developments and applications in all areas of advanced communication systems and networking, it covers a variety of topics, including next-generation wireless technologies such as 5G, new hardware platforms, antenna design, applications of artificial intelligence (AI), signal processing and optimization techniques. Given its scope, this book can be useful for beginners, researchers and professionals working in wireless communication and networks, and other allied fields.

Innovations in Electronics and Communication Engineering CRC Press

This volume presents selected papers from the 3rd International Conference on Optical and Wireless Technologies, conducted from 16th to 17th March, 2019. It focuses on extending the limits of currently used systems encompassing optical and wireless domains, and explores the latest developments in applications like photonics, high speed communication systems and networks, visible light communication, nano-photonics, wireless, and MIMO systems. The proceedings contain high quality scholarly articles, giving insight into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. This volume will prove useful to researchers and professionals alike.

Packt Publishing Ltd

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 mistake and misprints, which has crept in, have been eliminated in this edition.

Basic Electrical, Electronics and Computer Engineering

Springer Nature

This book illustrates basic principles, along with the development of the advanced algorithms, to realize smart robotic systems. It speaks to strategies by which a robot (manipulators, mobile robot, quadrotor) can learn its own kinematics and dynamics from data. In this context, two major issues have been dealt with; namely, stability of the systems and experimental validations. Learning algorithms and techniques as covered in this book easily extend to other robotic systems as well. The book contains MATLAB-based examples and c-codes under robot operating systems (ROS) for experimental validation so that readers can replicate these algorithms in robotics platforms.

Coherence and Quantum Optics VI Walter de Gruyter GmbH & Co KG

Electric Circuit Theory provides a concise coverage of the framework of electrical engineering. Comprised of six chapters, this book emphasizes the physical process of electrical engineering rather than abstract mathematics. Chapter 1 deals

with files, circuits, and parameters, while Chapter 2 covers the natural and forced response of simple circuit. Chapter 3 talks about the sinusoidal steady state, and Chapter 4 discusses the circuit analysis. The fifth chapter tackles frequency response of networks, and the last chapter covers polyphase systems. This book will be of great help to electrical, electronics, and control engineering students or any other individuals who require a substantial understanding of the physical aspects of electrical engineering.

Nanoelectronics, Circuits and Communication Systems

Elsevier Inc. Chapters

Due to increasing industry 4.0 practices, massive industrial process data is now available for researchers for modelling and optimization. Artificial Intelligence methods can be applied to the ever-increasing process data to achieve robust control against foreseen and unforeseen system fluctuations. Smart computing techniques, machine learning, deep learning, computer vision, for example, will be inseparable from the highly automated factories of tomorrow. Effective cybersecurity will be a must for all Internet of Things (IoT) enabled work and office spaces. This book addresses metaheuristics in all aspects of Industry 4.0. It covers metaheuristic applications in IoT, cyber physical systems, control systems, smart computing, artificial intelligence, sensor networks, robotics, cybersecurity, smart factory, predictive analytics and more. Key features: Includes industrial case studies. Includes chapters on cyber physical systems, machine learning, deep learning, cybersecurity, robotics, smart manufacturing and predictive analytics. surveys current trends and challenges in metaheuristics and industry 4.0. Metaheuristic Algorithms in Industry 4.0 provides a guiding light to engineers, researchers, students, faculty and other professionals engaged in exploring and implementing industry 4.0 solutions in various systems and processes.

Smart Grids and Green Energy Systems Springer Nature

There is a large gap between what you learn in college and the practical knowhow demanded in the working environment, running and maintaining electrical equipment and control circuits. Practical Troubleshooting of Electrical Equipment and Control Circuits focuses on the hands-on knowledge and rules-of-thumb that will help engineers and employers by increasing knowledge and skills, leading to improved equipment productivity and reduced maintenance costs. Practical Troubleshooting of Electrical Equipment and Control Circuits will help engineers and technicians to identify, prevent and fix common electrical equipment and control circuits. The emphasis is on practical issues that go beyond typical electrical principles, providing a tool-kit of skills in solving electrical problems, ranging from control circuits to motors and variable speed drives. The examples in the book are designed to be applicable to any facility. Discover the practical knowhow and rules-of-thumb they don't teach you in the classroom Diagnose electrical problems 'right first time' Reduce downtime