

Sanjeev Gupta Electromagnetic Field Theory

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HUERTA MATHIAS

Refrigeration And Air-Conditioning John Wiley & Sons

This book provides a fundamental and practical introduction to radio frequency and microwave engineering and physical aspects of wireless communication. In this book, the author addresses a wide range of radio-frequency and microwave topics with emphasis on physical aspects including EM and voltage waves, transmission lines, passive circuits, antennas, radio wave propagation. Up-to-date RF design tools like RF circuit simulation, EM simulation and computerized Smith charts, are used in various examples to demonstrate how these methods can be applied effectively in RF engineering practice. Design rules and working examples illustrate the theoretical parts. The examples are close to real world problems, so the reader can directly transfer the methods within the context of their own work. At the end of each chapter a list of problems is given in order to deepen the reader's understanding of the chapter material and practice the new competences. Solutions are available on the author's website. Key Features: Presents a wide range of RF topics with emphasis on physical aspects e.g. EM and voltage waves, transmission lines, passive circuits, antennas. Uses various examples of modern RF tools that show how these methods can be applied productively in RF engineering practice. Incorporates various design examples using circuit and electromagnetic (EM) simulation software. Discusses the propagation of waves: their representation, their effects, and their utilization in passive circuits and antenna structures. Provides a list of problems at the end of each chapter. Includes an accompanying website containing solutions to the problems (http://www.fh-dortmund.de/gustrau_rf_textbook). This will be an invaluable textbook for bachelor and master students on electrical engineering courses (microwave engineering, basic circuit theory and electromagnetic fields, wireless communications). Early-stage RF practitioners, engineers (e.g. application engineer) working in this area will also find this book of interest.

Wave Optics McGraw-Hill/Irwin

This book makes available original ballistics technology from around the world on a wide variety of weapons and their effects, including the design and trajectory/stability control of dozens of projectiles ranging from shells to missiles. The book's authors discuss the efficacy and development of propellants, munitions, and igniters and offer new approaches for modeling and testing. Also investigated in Volume 1 is gradient printing of energetic materials, and mechanical behavior of multiple types of explosives. Volume 2 offers research on impact and penetration data from projectile effects on surfaces ranging from natural phenomena such as water, to metallic plating and material-engineered armors. Recent advances in reactive fragments, which provide enhanced terminal effects, are presented. Detailed analysis of warhead mechanisms such as the formation and terminal effects of shaped charge jets are reported. Papers in

these volumes were presented at a conference jointly organized and supported by the Aeronautical Society of India, Hyderabad Branch, India, and the International Ballistics Society.

Physics Briefs Marquis Who's Who

This book SSC Selection Posts Phase IX Recruitment Exam 2022 [Edition 2022] is an updated and extensive study guide covering the latest syllabus prescribed by SSC. This Guide from Sanjeev Gupta aiming to provide precise and exam-oriented information which will act as a one-stop solution for all the aspirants preparing for the SSC Selection Posts Phase IX. The book not only covers the entire syllabus for the SSC Selection Posts Phase IX but also covers the Previous Year solved papers [2020]. Here are the highlights of the Chapters and the topics covered in them. Topics Covered: General Intelligence General Awareness Quantitative Aptitude (Basic Arithmetic Skill) English Language (Basic Knowledge)

Electronic Devices And Circuits Prabhat Prakashan

Appleyard, Field, and Cobb's International Economics, 6th Edition is an International Economics textbook that offers a consistent level of analysis and treatment of the two main subdivisions of international economics—international trade theory and policy and international monetary theory and policy. Comprehensive and clear, the text helps students move beyond recognition toward an understanding of current and future international events. As with each prior edition, the authors provide current and timely information on the wide variety of international economic phenomena in the 6th Edition. New boxed items were added to cover emerging issues in the global economy. Chapter material was updated to include recent developments in U.S. trade policy, major changes in the European Union, progress in the transition from command to market economies, and special issues related to developing nations. These improvements are designed to help readers both understand and appreciate the growing importance of the global economy in their lives.

International Economics Seagull Books Pvt Ltd

Over the past few decades, a clear trend has emerged worldwide toward the devolution of spending and, to a lesser extent, revenue-raising responsibilities to state and local levels of government. One view is that the decentralization of spending responsibilities can entail substantial gains in terms of distributed equity and macroeconomic management. The papers in this volume, edited by Teresa Ter-Minassian, examine the validity of these views in light of theoretical considerations, as well as the experience of a number of countries.

Halide Perovskites Academic Press

The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal processing, digital electronics, telecommunication technologies,

robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research.

Who's Who in America 2003 Springer Nature

This book is a printed edition of the Special Issue "Metasurfaces: Physics and Applications" that was published in Applied Sciences Mathematical Reviews Springer Science & Business Media First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

Nanoscience and Technology John Wiley & Sons

Silicon (Si) is by far the most widely used semiconductor material for power devices. On the other hand, Si-based power devices are approaching their material limits, which has provoked a lot of efforts to find alternatives to Si-based power devices for better performance. With the rapid innovations and developments in the semiconductor industry, Silicon Carbide (SiC) power devices have progressed from immature prototypes in laboratories to a viable alternative to Si-based power devices in high-efficiency and high-power density applications. SiC devices have numerous persuasive advantages--high-breakdown voltage, high-operating electric field, high-operating temperature, high-switching frequency and low losses. Silicon Carbide (SiC) devices belong to the so-called wide band gap semiconductor group, which offers a number of attractive characteristics for high voltage power semiconductors when compared to commonly used silicon (Si). Recently, some SiC power devices, for example, Schottky-barrier diodes (SBDs), metal-oxide-semiconductor field-effect transistors (MOSFETs), junction FETs (JFETs), and their integrated modules have come onto the market. Physics and Technology of Silicon Carbide Devices abundantly describes recent technologies on manufacturing, processing, characterization, modeling, etc. for SiC devices.

Principles Of Electromagnetics, 4Th Edition, International Version International Monetary Fund

The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21-22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of.

Metasurfaces: Physics and Applications MDPI

The definitive guide to the theory of constraints In this authoritative volume, the world's top Theory of Constraints (TOC) experts reveal how to implement the ground-breaking

management and improvement methodology developed by Dr. Eliyahu M. Goldratt. Theory of Constraints Handbook offers an in-depth examination of this revolutionary concept of bringing about global organization performance improvement by focusing on a few leverage points of the system. Clear explanations supplemented by examples and case studies define how the theory works, why it works, what issues are resolved, and what benefits accrue, and demonstrate how TOC can be applied to different industries and situations. Theory of Constraints Handbook covers: Critical Chain Project Management for realizing major improvements in delivering projects on time, to specification, and within budget Drum-Buffer-Rope (DBR), Buffer Management, and distribution for maximizing throughput and minimizing flow time Performance measures for applying Throughput Accounting to improve organizational performance Strategy, marketing, and sales techniques designed to increase sales closing rates and Throughput Thinking Processes for simple and complex environments TOC methods to ensure that services actions support escalating demand for services while retaining financial viability Integrating the TOC Thinking Processes, the Strategy and Tactic Tree, TOC measurements, the Five Focusing Steps of TOC, and Six Sigma as a system of tools for sustainable improvement

Fundamentals of Mathematical Statistics CRC Press

Published to coincide with the 30th anniversary of 'The Selfish Gene', this collection explores the impact of Richard Dawkins as scientist, rationalist, and one of the most important thinkers alive today.

Mechanical Measurements & Instrumentation Springer

Hybrid organic-inorganic perovskites (HOIPs) have attracted substantial interest due to their chemical variability, structural diversity and favorable physical properties the past decade. This materials class encompasses other important families such as formates, azides, dicyanamides, cyanides and dicyanometallates. The book summarizes the chemical variability and structural diversity of all known hybrid organic-inorganic perovskites subclasses including halides, azides, formates, dicyanamides, cyanides and dicyanometallates. It also presents a comprehensive account of their intriguing physical properties, including photovoltaic, optoelectronic, dielectric, magnetic, ferroelectric, ferroelastic and multiferroic properties. Moreover, the current challenges and future opportunities in this exciting field are also been discussed. This timely book shows the readers a complete landscape of hybrid organic-inorganic perovskites and associated multifunctionalities.

Hybrid Organic-inorganic Perovskites Springer Nature

Wave Optics: Basic Concepts and Contemporary Trends combines classical optics with some of the latest developments in the field to provide readers with an appreciation and understanding of advanced research topics. Requiring only a basic knowledge of electromagnetic theory and mathematics, this book: Covers the fundamentals of wave optics, such as oscillations, scalar and vector waves, reflection and refraction, polarization, interference and diffraction, and rays and beams Focuses on concepts related to advances in negative materials and superresolution, reflectionless potentials, plasmonics, spin-orbit interaction, optical tweezers, Pendry lensing, and more Includes MATLAB® codes for specific research problems, offering readers a behind-the-scenes look at the computational practices as well as an opportunity to extend the research Drawing parallels with corresponding quantum problems whenever possible to broaden the horizon and outlook, Wave Optics: Basic Concepts and Contemporary Trends gives readers a taste of what is happening in modern optics today and shows why wave optics remains one of the most interesting and challenging areas of physics.

Who's who in America McGraw Hill Professional

Vols. for 1973- include the following subject areas: Biological sciences, Agriculture, Chemistry, Environmental sciences, Health sciences, Engineering, Mathematics and statistics, Earth sciences, Physics, Education, Psychology, Sociology, Anthropology, History, Law & political science, Business & economics, Geography & regional planning, Language & literature, Fine arts, Library & information science, Mass communications, Music, Philosophy and Religion.

Sams Teach Yourself HTML, CSS, and JavaScript All in One Sams Publishing

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate Random Variable 2. Approximate Expression for Expectation and Variance 3. Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

Ballistics 2019 Springer Nature

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.

Comprehensive Dissertation Index Sultan Chand & Sons

Real insight from leading experts in the field into the causes of the unique photovoltaic performance of perovskite solar cells, describing the fundamentals of perovskite materials and device architectures. The authors cover materials research and development, device fabrication and engineering methodologies, as well as current knowledge extending beyond perovskite photovoltaics, such as the novel spin physics and multiferroic properties of this family of materials. Aimed at a better and clearer understanding of the latest developments in the hybrid perovskite field, this is a must-have for material scientists, chemists, physicists and engineers entering or already working in this booming field.

Fractional-Order Design John Wiley & Sons

This book presents and discusses recent developments in the broad field of spectroscopy, providing the reader with an updated overview. The main objective is to introduce them to recent innovations and current trends in spectroscopy applied to molecules and materials. The book also brings together experimentalists and theoreticians to highlight the multidimensional aspects of spectroscopy and discuss the latest issues. Accordingly, it provides insights not only into the general goals of spectroscopy, but also into how the various spectroscopic techniques represent a toolbox that can be used to gain a more detailed understanding of molecular systems and complex chemical problems. Besides technical aspects, basic theoretical interpretations of spectroscopic results are also presented. The spectroscopy techniques discussed include UV-visible absorption spectroscopy, Raman spectroscopy, IR absorption spectroscopy, fluorescence spectroscopy, and time-resolved spectroscopy. In turn, basic tools like lasers and theoretical modeling approaches are also presented. Lastly, applications for the characterization of fundamental properties of molecules (environmental aspects, biomolecules, pharmaceutical drugs, hazardous molecules, etc.) and materials (nanomaterials, nuclear chemistry materials, biomaterials, etc.) are discussed. Given its scope, the book offers a valuable resource for researchers from various branches of science, and presents new techniques that can be applied to their specific problems.

Indian Science Abstracts CRC Press

Fractional-Order Design: Devices, Circuits, and Systems introduces applications from the design perspective so that the reader can learn about, and get ready to, design these applications. The book also includes the different techniques employed to comprehensively and straightforwardly design fractional-order systems/devices. Furthermore, a lot of mathematics is available in the literature for solving the fractional-order calculus for system application. However, a small portion is employed in the design of fractional-order systems. This book introduces the mathematics that has been employed explicitly for fractional-order systems. Students and scholars who want to quickly understand the field of fractional-order systems and contribute to its different domains and applications will find this book a welcomed resource. Presents a simple and comprehensive understanding of the field of fractional-order

systems Offers practical knowledge on the design of fractional-

order systems for different applications Exposes users to the possible new areas of applications of fractional-order systems