

Engineering Physics SI Gupta

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Modern Engineering Physics PHI Learning Pvt. Ltd.

This book focuses on Internet of Things (IoT) and data mining for modern engineering and healthcare applications, recent technological advancements in microwave engineering and communication, and applicability of newly developed solid-state technologies in biomedical engineering and healthcare for day-to-day applications. The reader will be able to know the recent advancements in microwave engineering, including novel techniques in microwave antenna design and various aspects of microwave propagation. This book aims to showcase various aspects of communication, networking, data mining, computational biology, bioinformatics, biostatistics and machine learning. Day-to-day applicability of modern communication and networking technologies is a matter of prime concern. This book covers recent trends in solid-state technologies, VLSI and the applicability of modern electronic devices and biosensing devices in bioinformatics and smart healthcare. Furthermore, it showcases the modern optimization techniques in power system engineering and machine design and discusses the role of solid-state engineering in the development of modern electronic gadgets. Societal benefits of microwave technologies for smooth and hustle-free life are also majorly focused areas. This book will be of high interest to the researchers, academicians, scientists and industrialists as well who are involved in the role of IoT for modern engineering applications. Features: This book features

Internet of Things (IoT) and data mining for modern engineering and healthcare applications, recent technological advancements in microwave engineering and communication, and applicability of newly developed solid-state technologies in biomedical engineering and smart healthcare technologies. It showcases the novel techniques in Internet of Things (IoT)-integrated microwave antenna design and various aspects of microwave communication. It highlights the role of Internet of Things (IoT) in various aspects of communication, networking, data mining, computational biology, bioinformatics, biostatistics and machine learning. It reviews the role of Internet of Things (IoT) in solid-state technologies and VLSI and the applicability of modern electronic devices in bioinformatics and healthcare. It highlights the role of Internet of Things (IoT) in power system engineering, optics, RF and microwave energy harvesting and smart biosensing technologies.

Physics and Engineering of New Materials Springer

Most standard books on marketing area have been written by American authors. Though there are a number of books on Sales and Distribution Management by Indian authors as well, these books do not present the Indian conditions in the right perspective. Indian students studying management require books which deal with the changing profile of Indian buyers and helps them understand their perceptions and motivations as also the factors that influence the decisions made by Indian consumers. The book offers a practical approach to Sales and Distribution Management and gives a comprehensive, easy-to-read and enjoyable treatment to the subject matter for students of Sales and Distribution Management. It includes more than 500 live examples and 30 Case Studies from Indian marketing environment and provides sufficient food for thought to students to develop themselves as Result oriented marketers of the future.

Indian Book Industry IGI Global
Mathematical Physics

Mathematical Physics Excel Books India

Extended Non-Equilibrium Thermodynamics provides powerful tools departing not from empirical or statistical considerations but from fundamental thermodynamic laws, proposing final solutions that are readily usable and recognizable for students, researchers and industry. The book deals with methods that allow combining easily the present theory with other fields of science, such as fluid and solid mechanics, heat and mass transfer processes, electricity and thermoelectricity, and so on. Not only are such combinations facilitated, but they are incorporated into the developments in such a way that they become part of the theory. This book aims at providing for a systematic presentation of Extended Non-Equilibrium Thermodynamics in nanosystems with a high degree of applicability. Furthermore, the book deals with how physical properties of systems behave as a function of their size. Moreover, it provides for a systematic approach to understand the behavior of thermal, electrical, thermoelectric, photovoltaic and nanofluid properties in nanosystems. Experimental results are used to validate the theory, the comparison is analysed, justified and discussed, and the theory is then again used to understand better experimental observations. The new developments in this book, being recognizable in relation with familiar concepts, should make it appealing for academics and researchers to teach and apply and graduate students to use. The text in this book is intended to bring attention to how the theory can be applied to real-life applications in nanoscaled environments. Case studies, and applications of theories, are explored including thereby nanoporous systems, solar panels, nanomedicine

drug permeation and properties of nanoporous scaffolds. Explores new generalized thermodynamic models Provides introductory context of Extended Non-Equilibrium Thermodynamics within classical thermodynamics, theoretical fundamentals and several applications in nanosystems Provides for a systematic approach to understand the behavior of thermal, electric, thermoelectric and viscous properties as a function of several parameters in nanosystems Includes reflections to encourage the reader to think further and put the information into context Examines future developments of new constitutive equations and theories and places them in the framework of real-life applications in the energetic and medical sectors, such as photovoltaic and thermoelectric devices, nanoporous media, drug delivery and scaffolds

Practical Physics Springer Science & Business Media
Physics For Engineers Is A Text Book For Students Studying A Course In Engineering. The Book Has Been Written According To The Syllabi Prescribed In The Various Universities Of Karnataka. But It Can Be Profitably Used By The Students Of Other Indian Universities As Well. Engineering Is Generally Regarded As Applied Physics. It Is The Purpose Of The Book To Present The Principles And Concepts Of Physics As Relevant To An Engineer. The Topics Covered In The Book Are Drawn From Acoustics, Optics, Solid State Physics, Materials Science, Heat, Thermodynamics, Electricity And Magnetism. Some Of The Salient Features Of The Book Are: * Lucid Style * Clarity In The Presentation Of Concepts * Contains Numerous Problems And Solved Examples * Has More Than 300 Figures.

Advanced Numerical Simulations in Mechanical Engineering CRC Press

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). This book, in particular, focuses on characterizing materials using novel techniques. It covers a variety of advanced materials, viz. composites, coatings, nanomaterials, materials for fuel cells, biomaterials among others. The book also discusses advanced characterization techniques like X-ray photoelectron, UV spectroscopy, scanning electron, atomic power, transmission electron and laser confocal scanning fluorescence microscopy,

and gel electrophoresis chromatography. This book gives the readers an insight into advanced material processes and characterizations with special emphasis on nanotechnology.

Mechanics of Composite Materials and Structures Krishna Prakashan Media

This book facilitates the VLSI-interested individuals with not only in-depth knowledge, but also the broad aspects of it by explaining its applications in different fields, including image processing and biomedical. The deep understanding of basic concepts gives you the power to develop a new application aspect, which is very well taken care of in this book by using simple language in explaining the concepts. In the VLSI world, the importance of hardware description languages cannot be ignored, as the designing of such dense and complex circuits is not possible without them. Both Verilog and VHDL languages are used here for designing. The current needs of high-performance integrated circuits (ICs) including low power devices and new emerging materials, which can play a very important role in achieving new functionalities, are the most interesting part of the book. The testing of VLSI circuits becomes more crucial than the designing of the circuits in this nanometer technology era. The role of fault simulation algorithms is very well explained, and its implementation using Verilog is the key aspect of this book. This book is well organized into 20 chapters. Chapter 1 emphasizes on uses of FPGA on various image processing and biomedical applications. Then, the descriptions enlighten the basic understanding of digital design from the perspective of HDL in Chapters 2 – 5. The performance enhancement with alternate material or geometry for silicon-based FET designs is focused in Chapters 6 and 7. Chapters 8 and 9 describe the study of bimolecular interactions with biosensing FETs. Chapters 10 – 13 deal with advanced FET structures available in various shapes, materials such as nanowire, HFET, and their comparison in terms of device performance metrics calculation.

Chapters 14 – 18 describe different application-specific VLSI design techniques and challenges for analog and digital circuit designs. Chapter 19 explains the VLSI testability issues with the description of simulation and its categorization into logic and fault simulation for test pattern generation using Verilog HDL. Chapter 20 deals with a secured VLSI design with hardware obfuscation by hiding the IC 's structure and function, which makes it much more difficult to reverse engineer.

Competition Science Vision Modern Physics Modern Physics is a comprehensive and accessible book in accordance with the latest revised syllabus prescribed by the UGC for B.Sc. (Pass and Hons.). It provides a thorough understanding of the subject with the help of concepts, mathematical derivations, applications and a good number of worked-out problems, short-answer questions, objective-type questions and exercises. The text of the book is a detailed and systematic presentation of a wide range of topics -- atomic, molecular spectroscopy, quantum mechanics, statistical physics, solid state physics, lasers, optical fibres, semiconductors, superconductors, general relativity, nano materials, atomic nucleus, etc. The text is updated with all recent and relevant advances. The book is eminently suitable as a textbook for B.Sc. (Pass and Hons.) and also useful for M.Sc., B.Tech., UGC-CSIR (NET-SLET), GATE and other competitive and entrance examinations.

Engineering Physics for BSc and BE Students Physics for Engineers Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Physics for Engineers Springer Nature

This book presents the majority of the contributions to the Tenth German-Vietnamese Seminar on Physics and Engineering (GVS10) that took place in the Gustav-Stresemann-Institut (GSI) in Bonn from June 6 to June 9, 2007. In the focus of these studies are the preparation and

basic properties of new material systems, related investigation methods, and practical applications. Accordingly the sections in this book are entitled electrons: transport and confinement, low-dimensional systems, magnetism, oxidic materials, organic films, new materials, and methods. The series of German-Vietnamese seminars was initiated and sponsored by the Gottlieb Daimler- and Karl Benz -Foundation since 1998 and took place alternately in both countries. These bilateral meetings brought together top-notch senior and junior Vietnamese scientists with German Scientists and stimulated many contacts and co-operations. Under the general title "Physics and Engineering" the programs covered, in the form of keynote-lectures, oral presentations and posters, experimental and theoretical cutting-edge material-physics oriented topics. The majority of the contributions was dealing with modern topics of material science, particularly nanoscience, which is a research field of high importance also in Vietnam. Modern material science allows a quick transfer of research results to technical applications, which is very useful for fast developing countries like Vietnam. On the other hand, the seminars took profit from the strong cross-fertilization of the different disciplines of physics. This book is dedicated to the tenth anniversary of the seminars and nicely shows the scientific progress in Vietnam and the competitive level reached.

Internet of Things and Data Mining for Modern Engineering and Healthcare Applications CRC Press

Modern Physics for Scientists and Engineers provides thorough understanding of concepts and principles of Modern Physics with their applications. The various concepts of Modern Physics are arranged logically and explained in simple reader friendly language. For proper understanding of the subject, a large number of problems with their step-by-step solutions are provided for every concept. University problems have been included in all chapters. A set of theoretical, numerical and multiple choice questions at the end of each chapter will help readers to understand the subject. This textbook covers broad variety of topics of interest in Modern Physics: The Special Theory of Relativity, Quantum Mechanics (Dual Nature of Particle as well as Schrödinger's Equations with Applications), Atomic Physics, Molecular Physics, Nuclear Physics, Solid State Physics, Superconductivity, X-Rays, Lasers, Optical Fibres, and Motion of Charged Particle in

Electromagnetic Fields. The book is designed as a textbook for the undergraduate students of science and engineering.

Proceedings of the 8th International Conference on Industrial Engineering John Wiley & Sons

Molecular and Laser Spectroscopy: Advances and Applications provides students and researchers with an up-to-date understanding of the fast-developing area of molecular and laser spectroscopy. Editor V.P. Gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach, first covering basic principles needed to understand each cutting-edge technique and application. This book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field. The book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence, biomedical research, environmental monitoring, forensic investigations, food and agriculture, and chemical, pharmaceutical and petrochemical processes. Researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work. Covers several areas of spectroscopy research in a single volume, saving researchers time Includes exhaustive lists of research articles, reviews and books at the end of each chapter to point readers in the right direction for further learning Features illustrative examples of the varied applications Serves as a practical guide to those interested in using molecular and laser spectroscopy tools in their research and field applications

Engineering Physics: Vol. 1 Springer Nature

This volume contains a comprehensive examination of the crucial first ten years of the Arab League and of the continuing dilemma it faces in juggling opposing local and regional interests.

Indian Books John Wiley & Sons

This 21st Century Nanoscience Handbook will be the most comprehensive, up-to-date large reference

work for the field of nanoscience. Handbook of Nanophysics, by the same editor, published in the fall of 2010, was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics. This follow-up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field. Key Features: Provides the most comprehensive, up-to-date large reference work for the field. Chapters written by international experts in the field. Emphasises presentation and real results and applications. This handbook distinguishes itself from other works by its breadth of coverage, readability and timely topics. The intended readership is very broad, from students and instructors to engineers, physicists, chemists, biologists, biomedical researchers, industry professionals, governmental scientists, and others whose work is impacted by nanotechnology. It will be an indispensable resource in academic, government, and industry libraries worldwide. The fields impacted by nanoscience extend from materials science and engineering to biotechnology, biomedical engineering, medicine, electrical engineering, pharmaceutical science, computer technology, aerospace engineering, mechanical engineering, food science, and beyond.

Engineering Physics for BSc and BE Students CRC Press

This book reports on topics at the interface between manufacturing and materials engineering, with a special emphasis on smart and sustainable manufacturing. It describes innovative research in design engineering and manufacturing technology, covering the development and characterization of advanced materials alike. It also discusses key aspects related to ICT in engineering education. Based on the 5th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2022), held on June 7-10, 2022,

in Poznan, Poland, this first volume of a 2-volume set provides academics and professionals with extensive information on trends and technologies, and challenges and practice-oriented experience in all the above-mentioned areas.

Indian Journal of Pure & Applied Physics S. Chand Publishing

This book " Nuclear Physics " has been written for Physics major students of all Indian universities. The subject matter has been thoroughly revised in accordance with the recent UGC syllabus meant for all Indian universities. In preparing the text, special care has been taken to present the topics in a coherent, simple and straightforward manner. SI units have been used throughout this book. Numerical problems are solved in each chapter wherever necessary for the better understanding of the subject. Exercises including problems have been given at the end of each chapter. Special care has been taken to explain the chapters on theory of relativity and quantum mechanics with illustrations, suitable examples and problems so that the students can understand relativity and quantum mechanics without difficulty.

A Textbook of Engineering Physics Purdue University Press
A collection of 14 papers from the Armor Ceramics symposium held during The American Ceramic Society ' s 38th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 26-31, 2014.

Molecular and Laser Spectroscopy Elsevier
Recent developments in information processing systems have driven the advancement of numerical simulations in engineering. New models and simulations enable better solutions for problem-solving and overall process improvement. Advanced Numerical Simulations in Mechanical Engineering is a pivotal reference source for the latest research findings on advanced modelling and simulation method adopted in mechanical and mechatronics engineering. Featuring extensive coverage on relevant areas such as fuzzy logic controllers, finite element analysis, and analytical models, this

publication is an ideal resource for students, professional engineers, and researchers interested in the application of numerical simulations in mechanical engineering.

Advances in Ceramic Armor X New Age International

This book is an attempt to present an integrated and unified approach to the analysis of FRP composite materials which have a wide range of applications in various engineering structures- offshore, maritime, aerospace and civil engineering; machine components; chemical engineering applications, and so on.

Nuclear Physics S. Chand Publishing

The majority of professors have never had a formal course in education, and the most common method for learning how to teach is on-the-job training. This represents a challenge for disciplines with ever more complex subject matter, and a lost opportunity when new active learning approaches to education are yielding dramatic improvements in student learning and retention. This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format useful for both new and experienced teachers. It is organized to start with specific, practical teaching applications and then leads to psychological and educational theories. The "practical orientation" section explains how to develop objectives and then use them to enhance student learning, and the "theoretical orientation" section discusses the theoretical basis for learning/teaching and its impact on students. Written mainly for PhD students and professors in all areas of engineering, the book may be used as a text for graduate-level classes and professional workshops or by professionals who wish to read it on their own. Although the focus is engineering education, most of this book will be useful to teachers in other disciplines. Teaching is a complex human activity, so it is impossible to develop a formula that guarantees it will be excellent. However, the methods in this book will help all professors become good teachers while spending less time preparing for the classroom. This is a new edition of the well-received volume published by McGraw-Hill in 1993. It includes an entirely revised section on the Accreditation Board for Engineering and Technology (ABET) and new sections on the characteristics of great teachers, different active learning methods, the application of technology in the classroom (from clickers to intelligent tutorial systems), and how people learn.

Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University) S. Chand Publishing

Modern Physics