

Gaur And Gupta Engineering Physics

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 Engineering Physics - Part A

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Physics for Engineers Springer Science & Business Media

Carbon nanotubes have been studied extensively in relation to fullerenes, and together with fullerenes have opened a new science and technology field on nano scale materials. A whole range of issues from the preparation, structure, properties and observation of quantum effects in carbon nanotubes in comparison with 0-D fullerenes are discussed. In addition, complementary reviews on carbon nanoparticles such as carbon nano-capsules, onion-like graphite particles and metal-coated fullerenes are covered. This book aims to cover recent research and development in this area, and so provide a convenient reference tool for all researchers in this field. It is also hoped that this book can serve to stimulate future work on carbon nanotubes.

Silica-based Organic-inorganic Hybrid Nanomaterials: Synthesis, Functionalization And Applications In The Field Of Catalysis S. Chand Publishing

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.

Engineering Physics - Part B Walter de Gruyter GmbH & Co KG

Intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics, laser, optical fibres and holography have been included.

Advanced Engineering Mathematics, 22e Springer

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.

Physics for Engineers Disha Publications

Providing a comprehensive review of the state-of-the-art advanced research in the field, Polymer Physics explores the interrelationships among polymer structure, morphology, and physical and mechanical behavior. Featuring contributions from renowned experts, the book covers the basics of important areas in polymer physics while projecting into the future, making it a valuable

resource for students and chemists, chemical engineers, materials scientists, and polymer scientists as well as professionals in related industries.

Applied Physics II | AICTE Prescribed Textbook - English S. Chand Publishing

Semiconductors are at the heart of modern living. Almost everything we do, be it work, travel, communication, or entertainment, all depend on some feature of semiconductor technology. Comprehensive Semiconductor Science and Technology, Six Volume Set captures the breadth of this important field, and presents it in a single source to the large audience who study, make, and exploit semiconductors. Previous attempts at this achievement have been abbreviated, and have omitted important topics. Written and Edited by a truly international team of experts, this work delivers an objective yet cohesive global review of the semiconductor world. The work is divided into three sections. The first section is concerned with the fundamental physics of semiconductors, showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low-dimensional structure and further to a nanometer size. Throughout this section there is an emphasis on the full understanding of the underlying physics. The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity, nearly defect-free bulk and epitaxial materials. The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us. Provides a comprehensive global picture of the semiconductor world Each of the work's three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts

Engineering Physics Springer Nature

This book highlights recent findings in industrial, manufacturing and mechanical engineering and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering is discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. This book gathers selected papers presented at the 8th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia, in May 2022. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, this book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

Textbook of Applied Physics John Wiley & Sons

Buy Solved Series of Engineering Physics - Part A (E-Book) for B.Tech I & II Semester Students (Common to All) of APJ Abdul Kalam Technological University (KTU), Kerala

Engineering Physics Springer

Plant stresses are serious threats to the sustainability of crop yields accounting for more crop productivity losses than any other factor in rainfed agriculture. Post-harvest losses mean surplus crops do not reach market, affecting the livelihoods of farming families, and too often these families are left with no other option than to eat contaminated stored food. These constraints impact the food security of these farming families as well as the communities and countries in which they live. This book is the demonstration of a clear synergistic effect of stresses, an effect that was unexpectedly as important as either stress applied alone. This book will add to our current knowledge of abiotic stress response in plants and will provide the groundwork necessary to build future strategies for crop enhancement. The fundamental principles that underpin all biotechnology are explained and a full range of examples discussed to show how these principles are applied; from starting substrate to final product. It will be beneficial to both plant breeders and molecular biologists, because it combines the topics of physiology, tolerance genes, and breeding methods. When these topics are presented together, it is easy to compare all aspects of tolerance mechanisms and breeding methods for abiotic stresses. These comparisons are useful to understand which pathways or which genes are important for rendering more tolerance to a certain abiotic stress, and to bring forward new ideas for improving the tolerance. Features •Cover both plant biotic and abiotic stresses •Important factors in managing crops for water stress conditions •Substantially increase the sustainable productivity of smallholder farmers in

developing countries •Genetic and biochemical approaches – if those approaches constitute a substantial improvement on current practices.

Engineering Physics for BSc and BE Students CRC Press

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.

Engineering Physics Newnes

Buy Solved Series of Engineering Physics - Part B (E-Book) for B.Tech I & II Semester Students (Common to All) of APJ Abdul Kalam Technological University (KTU), Kerala
A Textbook Of Engineering Physics (As Per Vtu Syllabus) Universities Press

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabus of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

Electrical and Electronics Engineering Materials S. Chand Publishing

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.

Modern Engineering Physics New Age International

A textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

A Course in Electrical Engineering Materials KHANNA BOOK PUBLISHING CO. PVT. LTD.

Currently the field of nanocatalysis is undergoing many exciting developments and the design of silica-based organic-inorganic hybrid nanocatalysts is a key focus of the researchers working in this field. This book aims to present a succinct overview of the recent research progress directed towards the fabrication of silica-based organic-inorganic hybrid catalytic systems encompassing the key advantages of silica nanoparticles and silica-coated magnetic nanoparticles in an integrated manner. Featuring comprehensive descriptions of almost all approaches utilized for the synthesis of nanomaterials including some latest techniques such as flow and microwave-assisted synthesis that enable large-scale synthesis, it proves useful not only to academics but also industrialists. It also includes a systematic discussion on the vital characterization techniques employed for authenticating the structure of these. The title also offers an enormous amount of knowledge about the fusion of nanotechnology with green chemistry that strives to meet the scientific challenges of protecting human health and the environment.

Engineering Physics - S. Chand Publishing

This book explores the latest advances in our understanding of the evolution of the Ganga-

Brahmaputra delta, examining the Damodar basin, Bhagirathi-Hooghly basin and Jalangi basin from historical, quantitative and applied geomorphology perspectives. The evolution of the Ganga-Brahmaputra delta is highly complex and remains poorly understood. To address that gap, this edited volume presents 11 research papers: the first seven chapters focus on the pure geomorphology and geohydrology of the delta, while the remaining four examine its applied geomorphological aspects. The book offers a valuable guide for geologists, geographers, hydrologists, landscape ecologists, environmentalists, engineers, planners and policy makers.

Authentic SHORTCUTS, TIPS & TRICKS in PHYSICS for JEE Main, Advanced & KVPY Thakur Publication Private Limited

Different applications and uses of light energy have emerged over the last few years in many different fields such as in medicine, material science, energy and biochemistry. New and exciting applications of light-controlled processes have become practical in the diagnosis and treatment of diseases, the preparation and use of functional materials, the storage of solar energy and the control of biological properties. Many of these applications are based on a very simple chemical step: a photoisomerization. The isomerization of a chemical double bond allows for the control with extreme spatial and temporal resolution of complex systems. Nature offers different examples of very complex functions that are initiated by this type of simple chemical. Upon photon absorption, the light energy can be used to induce a chemical (geometrical) change that influences the protein environment that triggers a specific signal or function. Inspired by these amazing and extremely efficient processes, many efforts have been devoted to the modification of natural systems and to the design of new applications, using simple and tunable photoisomerizations. Accordingly, the preparation of photoactive molecular devices based on photoisomerizations and the use of these species in different applications is now a very active scientific field, with profound implications in our everyday lives. In this book, the fundamental aspects of the photoisomerization of many different chemical structures containing C=C, N=N and C=N double bonds is covered. Different experimental and computational tools used to study these processes are discussed and some specific applications of different compounds are presented.

Directory Nova Science Publishers

1- Applied Physics-II (With Lab Manual) by Hussain Jeevakhani-789391505578(DIP126EN) “Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education (OBE). Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning. Some salient features of the book: I Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. I Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. I Content presented in book in chronological way. I Figures, tables and equations are given to improve clarity of the topics. I Solved examples are given with systematic steps. I MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

Physics and Engineering of New Materials World Scientific

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Dimensional Methods in Engineering and Physics Pearson Education India

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

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