



# Applied Physics

For Engineers and Technicians



# Applied Physics For Engineers By Neeraj Mehta

**Ram K. Gupta**



## **Applied Physics For Engineers By Neeraj Mehta:**

**APPLIED PHYSICS FOR ENGINEERS** MEHTA, NEERAJ ,2011-07-30 This book is intended as a textbook for the first year undergraduate engineering students of all disciplines The text written in a student friendly manner covers a wide range of topics of engineering interest both from the domains of applied and modern physics It is meticulously tailored to cover the syllabi needs of almost all the Indian universities and institutes With its exhaustive treatment of different topics in one volume it relieves the engineering students of the arduous task of referring to several books Besides engineering students this book will be equally useful to the BSc Physics students of different universities **KEY FEATURES** Simple and clear diagrams throughout the book help students in understanding the concepts clearly Numerous in chapter solved problems chapter end unsolved problems with answers and review questions assist students in assimilating the theory comprehensively A large number of objective type questions at the end of each chapter help students in testing their knowledge of the theory     **Textbook of Engineering Physics** NEERAJ MEHTA,2008-09-19 As per the syllabus of Uttar Pradesh Technical University This book is written specifically to address the course curriculum in Engineering Physics I EAS 101 of the B Tech syllabus of the Uttar Pradesh Technical University The book is designed to meet the needs of the first year undergraduate students of all branches of engineering It provides a sound understanding of the important phenomena in physics The book exposes the students to fundamental knowledge in Special theory of relativity Wave nature of light such as interference diffraction and polarization Properties and applications of lasers Types of optical fibres their geometries and use in communication systems Basic principles and applications of holography **Key Features** Numerous solved examples in each chapter on the pattern of previous years question papers to stress conceptual understanding Chapter end model questions to probe a student s grasp of the subject matter Chapter end numerical problems with answers to enhance the student s problem solving skills     **Textbook Of Engineering Physics** Mehta,Mehta Neeraj,2013-01-01 This book is a sequel to the author s Engineering Physics Part I and is written to address the course curriculum in Engineering Physics II Course Code EAS 102 of the B Tech syllabus of the Uttar Pradesh Technical University The book is designed to meet the needs of the first year undergraduate students of all branches of engineering It provides a sound understanding of the important phenomena in physics     **Surface Engineering of Biomaterials** Ajit Behera,Debasis Nayak,Biswajit Kumar Swain,2024-03-20 Surface engineering provides one of the most important means of engineering product differentiation in terms of quality performance and lifecycle cost It is essential to achieve predetermined functional properties of materials such as mechanical strength biocompatibility corrosion resistance wear resistance and heat and oxidation resistance Surface Engineering of Biomaterials addresses this topic across a diverse range of process technologies and healthcare applications Introduces biomaterial surface science and surface engineering and includes criteria for biomaterial surface selection Focuses on a broad array of materials including metals ceramics polymers alloys and composites Discusses corrosion degradation and material release

issues in implant materials Covers various processing routes to develop biomaterial surfaces including for smart and energy applications Details techniques for post modification of biomaterial surfaces This reference work helps researchers working at the intersection of materials science and biotechnology to engineer functional biomaterials for a variety of applications

**ENGINEERING CHEMISTRY WITH LABORATORY EXPERIMENTS** MOHAPATRA, RANJAN KUMAR, 2015-10-09 This book is primarily intended for the first year B Tech students of all branches for their course on engineering chemistry The main objective of this book is to provide a broad understanding of the chemical concepts theories and principles of Engineering Chemistry in a clear and concise manner so that even an average student can grasp the intricacies of the subject It includes the general concepts of structure and bonding phase rule solid state reaction kinetics and catalysis electrochemistry chemical thermodynamics and free energy Besides the book introduces topics of applied chemistry like water technology polymer chemistry and nanotechnology Each theoretical concept is well supported by illustrative examples The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts KEY FEATURES i Each chapter of the book provides a clear and easy understanding of the definitions theories and principles ii A large number of well labelled diagrams help to understand the concepts easily and clearly iii Chapter wise glossary and important mathematical relations are given for quick revision iv Provides multiple choice questions with answers short questions and long questions for practice a

**Advanced Analytic and Control Techniques for Thermal Systems with Heat Exchangers** Libor Pekar, 2020-07-10 Advanced Analytic Control Techniques for Thermal Systems with Heat Exchangers presents the latest research on sophisticated analytic and control techniques specific for Heat Exchangers HXs and heat Exchanger Networks HXNs such as Stability Analysis Efficiency of HXs Fouling Effect Delay Phenomenon Robust Control Algebraic Control Geometric Control Optimal Control Fuzzy Control and Artificial Intelligence techniques Editor Libor Pekar and his team of global expert contributors combine their knowledge and experience of investigated and applied systems and processes in this thorough review of the most advanced networks analyzing their dynamics efficiency transient features physical properties performance feasibility flexibility and controllability The structural and dynamic analyses and control approaches of HXNs as well as energy efficient manipulation techniques are discussed in addition to the design of the control systems through the full life cycle This equips the reader with an understanding of the relevant theory in a variety of settings and scenarios and the confidence to apply that knowledge to solve problems in an academic or professional setting Graduate students and early mid career professionals require a robust understanding of how to suitably design thermal systems with HXs and HXNs to achieve required performance levels which this book offers in one consolidated reference All examples and solved problems included have been tried and tested and these combined with the research driven theory provides professionals researchers and students with the most recent techniques to maximize the energy efficiency and sustainability of existing and new thermal power systems Analyses several advanced techniques the

theoretical background of these techniques and includes models examples and results throughout Focusses on advanced analytic and control techniques which have been investigated or applied to thermal systems with HXs and HXNs Includes practical applications and advanced ideas from leading experts in the field as well as case studies and tested problems and solutions     Handbook of Semiconductors Ram K. Gupta,2024-07-10 This book provides readers with state of the art knowledge of established and emerging semiconducting materials their processing and the fabrication of chips and microprocessors In addition to covering the fundamentals of these materials it details the basics and workings of many semiconducting devices and their role in modern electronics and explores emerging semiconductors and their importance in future devices Provides readers with latest advances in semiconductors Covers diodes transistors and other devices using semiconducting materials Covers advances and challenges in semiconductors and their technological applications Discusses fundamentals and characteristics of emerging semiconductors for chip manufacturing This book provides directions to scientists engineers and researchers in materials engineering and related disciplines to help them better understand the physics characteristics and applications of modern semiconductors     Functional Materials and Advanced Manufacturing Chander Prakash,Sunpreet Singh,J. Paulo Davim,2021-01-06 This three volume set addresses a new knowledge of function materials their processing and their characterizations Functional and Smart Materials covered the synthesis and fabrication route of functional and smart materials for universal applications such as material science mechanical engineering manufacturing metrology nanotechnology physics chemical biology chemistry civil engineering and food science Advanced Manufacturing and Processing Technology covers the advanced manufacturing technologies includes coating deposition cladding nanotechnology surface finishing precision machining processing and emerging advanced manufacturing technologies for processing of materials for functional applications Characterization Testing Measurement and Metrology covered the application of new and advanced characterization techniques to investigate and analysis the processed materials

**Functional and Smart Materials** Chander Prakash,Sunpreet Singh,J. Paulo Davim,2020-10-25 This book presents a comprehensive and broad spectrum picture of the state of the art research development and commercial prospective of various discoveries conducted in the real world of functional and smart materials This book presents various synthesis and fabrication routes of function and smart materials for universal applications such as material science mechanical engineering manufacturing metrology nanotechnology physics biology chemistry civil engineering and food science The content of this book opens various scientific horizons proved to be beneficial for uplifting the standards of day to day practices in the biomedical domain Myriad innovations in the materials science and engineering are transforming our everyday lives in extraordinary ways This book captures the emerging areas of materials science and advanced manufacturing engineering and presents recent trends in research for researchers field engineers and academic professionals     **Materials for Electronic, Magnetic, and Spintronic Technologies** Amodini Mishra,Virat Dixit,Divya Somvanshi,Anu Singh,Anju

Mishra,2024-08-12 This book consolidates the collective contributions of various authors presenting a diverse array of materials for systematic property assessment and their subsequent application in electronic magnetic and spintronic technologies Encompassing pure and modified polymers metals and semiconductors the book elucidates the magnetic photocatalytic thermal electrochemical and other salient characteristics inherent in these materials Delving into a broad spectrum of applications such as energy storage environmental remediation water purification and biomedical drug administration the book carefully examines these materials in the context of their distinctive attributes By elucidating the correlation between a material s functionality and its physical properties this work offers a lucid and accessible presentation that facilitates an understanding of how these materials can be judiciously employed for specific purposes Designed for researchers graduate students educators engineers industry researchers and other informed members of the public the comprehensive coverage of this book renders it an indispensable tool in the realm of materials science and technology Through its meticulous exploration of various materials and their applications this work stands as a valuable resource for those seeking a profound understanding of the intricate interplay between material properties and their functionalities

Semiconducting Fibers Ram K. Gupta,2024-08-23 Semiconducting Fibers Preparation Advances and Applications is a comprehensive study of the properties and emerging applications of semiconducting fibers These nanomaterials have unique optoelectronic properties they are flexible one dimensional and lightweight and can grow in bulk thin films and nano dimensions 0D 1D 2D 3D Written by experts from around the world this book covers the fundamentals of semiconducting fibers their fabrication and emerging applications in electronics optoelectronics energy and healthcare Various approaches to fabricating semiconducting fibers their characteristics and the working principles of nano dimensional devices are covered Key features Expert scientists across the world present state of the art progress on semiconducting fibers for emerging applications including flexible and wearable electronics Provides details of novel methods and advanced technologies used in energy applications of semiconducting fibers Provides fundamentals of electrochemical behavior and their understanding of optoelectronics photovoltaics batteries fuel cells sensors and supercapacitors Presents fabrication characterization and applications of semiconducting fibers for energy conversion and storage This book will be a key resource for students academics and industry professionals interested in the fabrication device technologies and applications of semiconducting fibers

Energy Applications of 2D Nanomaterials Ram K. Gupta,2022-05-26 2D nanomaterials have emerged as promising candidates for use in energy devices owing to their superior electrochemical properties surface area nanodevice integration multifunctionality printability and mechanical flexibility Energy Applications of 2D Nanomaterials covers a wide range of applications of 2D nanomaterials for energy as well as future applications and challenges in fabricating flexible energy generation and storage devices This book Examines 2D nanomaterials for solar cells fuel cells batteries supercapacitors and flexible devices Details novel methods and advanced technologies Covers future applications and challenges This book is

aimed at materials scientists chemists electrochemists and engineers working in energy disciplines

**Tribology and Characterization of Surface Coatings** Sarfraz Ahmed, Vinayak S. Dakre, 2022-01-07 TRIBOLOGY AND CHARACTERIZATION OF SURFACE COATINGS The book provides updated information on the friction and wear behavior of coatings used in various industrial applications Surface modification is a cost effective process of increasing the life of components so that the whole device need not be changed if the surface is worn out The tribological behavior of biological implants is currently an active topic and a thorough discussion is one of the book's features Tribology and Characterization of Surface Coatings explores key issues which are important in the research and development of surface coatings by providing updated information on friction and wear behavior of coatings used in different industrial applications It covers the various coating deposition techniques tribological response of nanocomposite coatings multilayer hardfacing and wear testing methods for coatings at nanoscale The use of nanostructures may alter the tribological characterization and mechanical properties of the materials Thermal spraying is the most widely used technique in industry for the deposition of coatings and their tribological properties need to be determined This book also includes the recent trends in biotribology and the materials used in implants to counter the abrasive wear Audience The book will serve as a reference to researchers scientists academicians industrial engineers and students who work in the fields of materials polymer science and mechanical engineering

**Intelligent Data-Driven Modelling and Optimization in Power and Energy Applications** B Rajanarayan Prusty, Neeraj Gupta, Kishore Bingi, Rakesh Sehgal, 2024-05-09 This book provides a comprehensive understanding of how intelligent data driven techniques can be used for modelling controlling and optimizing various power and energy applications It aims to develop multiple data driven models for forecasting renewable energy sources and to interpret the benefits of these techniques in line with first principles modelling approaches By doing so the book aims to stimulate deep insights into computational intelligence approaches in data driven models and to promote their potential applications in the power and energy sectors Its key features include an exclusive section on essential preprocessing approaches for the data driven model a detailed overview of data driven model applications to power system planning and operational activities specific focus on developing forecasting models for renewable generations such as solar PV and wind power and showcasing the judicious amalgamation of allied mathematical treatments such as optimization and fractional calculus in data driven model based frameworks This book presents novel concepts for applying data driven models mainly in the power and energy sectors and is intended for graduate students industry professionals research and academic personnel

**Manufacturing Engineering** Vishal S. Sharma, Uday S. Dixit, Knut Sørby, Arvind Bhardwaj, Rajeev Trehan, 2020-06-02 This volume comprises select peer reviewed contributions from the International Conference on Production and Industrial Engineering CPIE 2019 The contents focus on latest research in production and manufacturing engineering including case

studies with analytical models and latest numerical approaches The topics covered include micro nano and non conventional machining additive manufacturing casting and forming joining processes vibrations and acoustics materials and processing product design and development industrial automation CAD CAM and robotics and sustainability in manufacturing The book can be useful for students researchers and professionals working in manufacturing and production engineering and other allied fields

**Nanosensors for Environmental Applications** Satish Kumar Tuteja, Divya Arora, Neeraj Dilbaghi, Eric Lichtfouse, 2020-04-28 This book provides a comprehensive overview on the most important types of nanosensor platforms explored and developed in the recent years for efficient detection of environmental clinical analytes The chapters cover basic aspects of functioning principles and describe the technologies and challenges of present and future pesticide metal ions toxic gases analytical sensing approaches and environmental sensors Nanosensors are nanoscale miniature devices used for sensing of analyte in ultra low range These have gained considerable interest in environmental applications such as environmental chemistry and functionalization approaches environmental engineering sustainability green technology for sensing environmental health monitoring pesticide detection metal and ions detection using electrochemical and wireless sensor

Two-Dimensional Materials for Environmental Applications Neeraj Kumar, Rashmi Gusain, Suprakas Sinha Ray, 2023-04-28 This book focuses on recent developments in the field of two dimensional nanomaterials for environmental applications Due to their high surface area and tunable surface chemistry two dimensional nanomaterials are currently garnering great interest for environmental remediation applications This book compiles contributed chapters from active international researchers dealing with the development of state of the art two dimensional nanomaterials in environmental applications such as water and wastewater treatment adsorption photocatalysis membrane separation desalination deionization environmental pollutants sensing detection carbon dioxide capture and catalytic conversion microbial treatment and electrochemical remediation Each chapter provides an essential and comprehensive overview of the recent advances in material development and application giving special attention to preparation methods tuning of physiochemical properties surface and interface chemistry structural porosity assemblies integration for fabrication of devices and their relationship with overall efficiency It offers a valuable reference guide for environmental and materials scientists engineers and policymakers working towards environmental sustainability

*Green Chemistry Approaches to Environmental Sustainability* Vinod Kumar Garg, Anoop Yadav, Chandra Mohan, Sushma Yadav, Neeraj Kumari, 2023-09-20 Green Chemistry Approaches to Environmental Sustainability Status Challenges and Prospective provides a comprehensive and complete overview of the emerging discipline of green chemistry and fundamental chemical principles The book bridges the gap between research and industry by offering a systematic overview of current available sustainable materials and related information on new materials suitability and potential for given projects Along the way the book examines natural and biodegradable materials while also presenting materials with multifunctional properties Topics addressed in this book will be major accomplishments



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This book delves into Applied Physics For Engineers By Neeraj Mehta. Applied Physics For Engineers By Neeraj Mehta is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Applied Physics For Engineers By Neeraj Mehta, encompassing both the fundamentals and more intricate discussions.

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