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*Carbon Nanomaterial Electronics: Devices and Applications* - Arnab Hazra  
2021-05-22

This book brings together selective and specific chapters on nanoscale carbon and applications, thus making it unique due to its thematic content. It provides access to the contemporary

developments in carbon nanomaterial research in electronic applications. Written by professionals with thorough expertise in similar broad area, the book is intended to address multiple aspects of carbon research in a single compiled edition. It targets professors, scientists and researchers belonging to the areas of

physics, chemistry, engineering, biology and medicine, and working on theory, experiment and applications of carbon nanomaterials.

### **Modern Engineering Physics**

- A S Vasudeva 2012-07

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 syllabi 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.

### **Roads, Railways, Bridges, Tunnel & Harbour Dock**

**Engineering** - B.L. Gupta &

Amit Gupta 2007-01-01

Part-I: ROAD ENGINEERING:

Introduction \* Glossary \*

History of Development of

Highway and Planning \*

Highway Planning \* Highway

Economics and Financing \*

Guiding Principles of Route Selection and Highway Location \* Drainage \* Highway Materials \* Geometric Design \* Highway Construction \* Hill Roads \* Highway Machinery Roads Arboriculture \* Traffic Engineering \* Highway Failure and Their Maintenance \* Pavement Design \* Quality Control \* Objective Type Questions on Highways \* Solved Problems on Highways. Part-II : RAILWAY ENGINEERING: History of Railways \* Railway Track & Track Stresses \* Railway Gauges \* Rails \* Sleepers \* Ballast \* Foundation and its Drainage \* Track Fitting and Fastening Track Alignment & Surveying \* Traction and Tractive Resistance \* Rolling Stock of Railways \* Geometric Design of a Railway Track \* Creep \* Stations and Yards \* Station Equipments \* Points, Crossings and Simple Layouts \* Signalling & Inter-locking \* Level Crossings \* Welding of Railways \* Long and short Welded Rails \* Manual Maintenance of Track \* Mechanised Maintenance of

Track \* Directed Track  
Maintenance \* Measured Shovel  
Packing Track Tolerances \*  
Track Renewal \* Accidents \*  
Duties of Permanent Way  
Officials \* Material  
Management \* Objective Type  
Questions on Railways \* Solved  
Problems on Railways.Part-III:  
BRIDGE ENGINEERING :  
Introduction \* Bridge  
Terminology \* Investigation  
and Planning for Bridges \*  
Type of Bridges \* General  
Principles of Design \* Sub  
Structures \* Foundations \*  
Super Structures of Arch  
Designs \* Girder Bridges \* Low  
Cost Bridges \* Permanent  
Small Bridges \* Bearings \*  
Loads on Bridges \* Design of  
Bridge Foundation \* Design of  
Arch Bridges \* Design of Solid  
R.C.C. Salb Bridges \* R.C.C.  
Girder Bridges \* Inspection of  
Bridges \* Maintenance of  
Bridges \* Testing  
Strengthening of Bridge \*  
Protection and Training Works  
for Bridges \* Objective Type  
Question on Bridges  
Engineering.Part-IV: TUNNEL  
ENGINEERING : General  
Aspects \* Alignment of Tunnels

\* Drilling \* Blasting \*  
Tunneling \* Shafts \*  
Ventilation, Lighting and  
Drainage of Tunnels \* Tunnel  
Lining \* Safety in Tunnelling \*  
Objective Type Questions on  
Tunnel Engineering.Part-V:  
HARBOUR-DOCK  
ENGINEERING: Water  
Transportation and Sea \*  
Terminology \* Natural  
Phenomena- Wind, Wave and  
Cyclones \* Harbours and Ports  
\* Break Water \* Docks \* Dry or  
Repair Docks \* Locks \*  
Channel, Basin and Berths \*  
Appurtenances of a Harbour \*  
Apron, Transit Sheds and  
Warehouses \* Dredging and  
Dregers \* Navigational Aids \*  
Shore Protection Works.  
Questions.

*Analog Communication  
Systems* - P. Chakrabarti  
2005-01-01

**International Books in Print**  
- 1990

*Engineering Thermodynamics* -  
Gupta S.K. 2013  
Continuing the tradition of the  
best selling textbooks, this first  
edition "Engineering

Thermodynamics" is a comprehensive reference to the broad spectrum of thermodynamics, encapsulating the theoretical and practical aspects of the field. The author addresses a myriad of topics, covering both traditional and innovative approaches. Additionally, the book includes numerous tables

### **Deprescribing in Psychiatry**

- Swapnil Gupta 2019

The current state of medicine has witnessed the long-term adverse effects of certain medications, an increased rate of polypharmacy, and a cultural shift that emphasizes patient-centered practice. The term "deprescribing" refers to the optimization of the pharmacological regimen by reducing or ceasing medications that incur more risks than benefits. Many people consider stopping their psychiatric medications, but prescribers may not know how to do this in a collaborative, systematic way. Deprescribing in Psychiatry presents a framework for deprescribing to guide the prescriber-patient

dyad through the process of deciding if and when to reduce psychiatric medication, how to go about doing it, and at the same time, acknowledge the inherent risks in such an endeavour. As the first book on the subject, Deprescribing in Psychiatry stands to serve as a definitive text in this burgeoning field and as a 'rallying call' to raise crucial and topical questions in psychiatric practice, promote innovation, and act as a resource on the current state-of-the-art care. It describes the ins and outs of how clinicians can work closely with their patients to consider whether or not to try decreasing medications. It also discusses the anticipated future research directions, considerations for the field, and emphasizes collaboration with the patient, transparency, and the acknowledgement of uncertainty in psychiatric practice.

*Laser Fundamentals* - William T. Silfvast 2008-07-21

Laser Fundamentals provides a clear and comprehensive

introduction to the physical and engineering principles of laser operation and design. Simple explanations, based throughout on key underlying concepts, lead the reader logically from the basics of laser action to advanced topics in laser physics and engineering. Much new material has been added to this second edition, especially in the areas of solid-state lasers, semiconductor lasers, and laser cavities. This 2004 edition contains a new chapter on laser operation above threshold, including extensive discussion of laser amplifiers. The clear explanations, worked examples, and many homework problems will make this book invaluable to undergraduate and first-year graduate students in science and engineering taking courses on lasers. The summaries of key types of lasers, the use of many unique theoretical descriptions, and the extensive bibliography will also make this a valuable reference work for researchers.

**Air Pollution** - Pallavi Saxena

2018-12-19

Air pollution has become a major global issue due to rapid industrialization, human population growth and increasing urbanization. The various sources of atmospheric pollutants, both those created by human activity and those from natural physical and biological processes, have become the focus of much scientific research and analysis. An understanding of how these many pollutants are affecting air quality is essential in order to design strategies to mitigate them. Written by a team of international experts, this book aims to provide a broad overview of the issues surrounding air pollution and how to control and monitor pollution levels. Beginning with a brief background on the subject, the book moves on to discuss global emissions, with an emphasis on megacities and their effects. Possible pollution control measures and methods of air pollution measurement and modelling are also explored. The book ends with descriptions of the various

indices used for assessing air quality with a focus on human health impacts, and a discussion on policy making to control air pollution. The book will be useful to students of environmental science and atmospheric science, as well as environmental consultants and researchers interested in air quality . Key Features:

Comprehensive introduction to the primary causes of air pollution today with an emphasis on growing urban populations and megacities Discusses both anthropogenic and biogenic emissions and their effects on human health and the environment Gives an overview of indices used today for assessing air quality and describes current methods for air pollution monitoring and modelling Discusses new technologies for mitigating the effects of air pollution and policy making for implementation of controls

Biopolymer-Based

Formulations - Kunal Pal

2020-01-18

Biopolymer-Based

Formulations: Biomedical and

Food Applications presents the latest advances in the synthesis and characterization of advanced biopolymeric formulations and their state-of-the-art applications across biomedicine and food science.

Sections cover the fundamentals, applications, future trends, environmental, ethical and medical considerations, and biopolymeric architectures that are organized in nano, micro and macro scales. The final section of the book focuses on novel applications and recent developments. This book is an essential resource for researchers, scientists and advanced students in biopolymer science, polymer science, polymer chemistry, polymer composites, plastics engineering, biomaterials, materials science, biomedical engineering, and more. It will also be of interest to R&D professionals, scientists and engineers across the plastics, food, biomedical and pharmaceutical industries.

Provides in-depth coverage of methods for the

characterization of the physical properties of biopolymeric architectures Supports a range of novel applications, including scaffolds, implant coatings, drug delivery, and nutraceutical encapsulation systems Includes the use of experimental data and mathematical modeling, thus enabling the reader to analyze and compare the properties of different polymeric gels

*Sensors and Biosensors, MEMS Technologies and its Applications* - Sergey Yurish  
2014-07-14

Sensors and Biosensors, MEMS Technologies and its Applications (Book Series: Advances in Sensors: Reviews, Vol. 2) - 18 chapters with sensor related state-of-the-art reviews and descriptions of the latest achievements written by experts from academia and industry from 12 countries: China, India, Iran, Malaysia, Poland, Singapore, Spain, Taiwan, Thailand, UK, Ukraine and USA. This volume is divided into three main parts: physical sensors, biosensors, nanoparticles, MEMS

technologies and applications. With this unique combination of information in each volume, the Advances in Sensors: Reviews Book Series will be of value for scientists and engineers in industry and at universities, to sensors developers, distributors, and users. Like the 1st volume of this Book Series, the 2nd volume also has been organized by topics of high interest.

**Security and Privacy-Preserving Techniques in Wireless Robotics** - Amit Kumar Tyagi 2022-08-01

The wide gap between the existing security solutions and the actual practical deployment in smart manufacturing, smart home, and remote environments (with respect to wireless robotics) is one of the major reasons why we require novel strategies, mechanisms, architectures, and frameworks. Furthermore, it is also important to access and understand the different level of vulnerabilities and attack vectors in Wireless Sensor Network (WSN) and Wireless

Robotics. This book includes an in-depth explanation of a secure and dependable Wireless Robotics (WR) architecture, to ensure confidentiality, authenticity, and availability. Features Blockchain technology for securing data at end/server side Emerging technologies/networking, like Cloud, Edge, Fog, etc., for communicating and storing data (securely). Various open issues, challenges faced in this era towards wireless robotics, including several future research directions for the future. Several real world's case studies are included Chapters on ethical concerns and privacy laws, i.e., laws for service providers Security and privacy challenges in wireless sensor networks and wireless robotics The book is especially useful for academic researchers, undergraduate students, postgraduate students, and industry researchers and professionals. *New Oxford Textbook of Psychiatry* - Michael G. Gelder 2012-01

The 'New Oxford Textbook of Psychiatry' is one of the leading reference works in this field. Bringing together over 200 chapters from the leading figures in the discipline, it presents a comprehensive account of clinical psychiatry, with reference to its scientific basis and to the patient's perspective throughout. In the 8 years since publication of the first edition, many new and exciting developments have occurred in the biological sciences, which are having a major impact on how we study and practise psychiatry. In addition, psychiatry has fostered closer ties with philosophy, and these are leading to healthy discussions about how we should diagnose and treat mental illness. This new edition recognises these and other developments. Throughout, accounts of clinical practice are linked to the underlying science, and to the evidence for the efficacy of treatments. Physical and psychological treatments, including psychodynamic approaches, are covered in

depth. The history of psychiatry, ethics, public health aspects, and public attitudes to psychiatry and to patients are all given due attention. The 'New Oxford Textbook of Psychiatry' will continue to serve the profession as an authoritative and comprehensive reference.

*Foundation Course for NEET (Part 2): Chemistry Class 9 - Lakhmir Singh & Manjit Kaur*

Our NEET Foundation series is sharply focused for the NEET aspirants. Most of the students make a career choice in the middle school and, therefore, choose their stream informally in secondary and formally in senior secondary schooling, accordingly. If you have decided to make a career in the medical profession, you need not look any further! Adopt this series for Class 9 and 10 today.

**Optimal Planning of Smart Grid With Renewable Energy Resources** - Jain, Naveen 2021-12-10

Understanding the recent developments in renewable energy is crucial for a range of fields in today's society. As

environmental awareness and the need for a more sustainable future continues to grow, the uses of renewable energy, particularly in areas such as smart grid, must be considered and studied thoroughly to be implemented successfully and move society toward a more sustainable future. *Optimal Planning of Smart Grid With Renewable Energy Resources* offers a detailed guide to the new problems and opportunities for sustainable growth in engineering by focusing on modeling diverse problems occurring in science and engineering as well as novel effective theoretical methods and robust optimization theories, which can be used to analyze and solve multiple types of problems. Covering topics such as electric drives and energy systems, this publication is ideal for researchers, academicians, industry professionals, engineers, scholars, instructors, and students.

Who's Who in America - Marquis Who's Who, Inc 2002

*TFET Integrated Circuits* -  
Navneet Gupta 2020-11-06

This book describes the physical operation of the Tunnel Field-effect Transistor (TFET) and circuits built with this device. Whereas the majority of publications on TFETs describe in detail the device, its characteristics, variants and performance, this will be the first book addressing TFET integrated circuits (TFET ICs). The authors describe the peculiarities of TFET ICs and their differences with MOSFETs. They also develop and analyze a number of logic circuits and memories. The discussion also includes complex circuits combining CMOS and TFET, as well as a potential fabrication process in Silicon.

Recent Trends in Materials and Devices - Vinod Kumar Jain  
2016-10-20

This book presents the proceedings of the International Conference on Recent Trends in Materials and Devices, which was conceived as a major contribution to

large-scale efforts to foster Indian research and development in the field in close collaboration with the community of non-resident Indian researchers from all over the world. The research articles collected in this volume - selected from among the submissions for their intrinsic quality and originality, as well as for their potential value for further collaborations - document and report on a wide range of recent and significant results for various applications and scientific developments in the areas of Materials and Devices. The technical sessions covered include photovoltaics and energy storage, semiconductor materials and devices, sensors, smart and polymeric materials, optoelectronics, nanotechnology and nanomaterials, MEMS and NEMS, as well as emerging technologies.

Fundamentals of Electrical Engineering - Leonard S. Bobrow 1996

Divided into four parts: circuits, electronics, digital

systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.

**Energy Systems, Drives and Automations** - Afzal Sikander  
2020-08-31

This book gathers selected research papers presented at the Second International Conference on Energy Systems, Drives and Automations (ESDA 2019), held in Kolkata on 28–29 December 2019. It covers a broad range of topics in the fields of renewable energy, power management, drive systems for electrical machines and automation. Also discussing a variety of related tools and techniques, the book offers a valuable resource for researchers, professionals and students in electrical and mechanical engineering disciplines.

*Managing aquifer recharge* -  
UNESCO 2021-11-25

**Basic Mechanical Engineering** - Rajput 2002

*Who's Who in Science and Engineering 2008-2009* -  
Marquis Who's Who 2007-12

**Handbook of Water Resources Management: Discourses, Concepts and Examples** - Janos J. Bogardi  
2021-06-12

This book provides an overview of facts, theories and methods from hydrology, geology, geophysics, law, ethics, economics, ecology, engineering, sociology, diplomacy and many other disciplines with relevance for concepts and practice of water resources management. It provides comprehensive, but also critical reading material for all communities involved in the ongoing water discourses and debates. The book refers to case studies in the form of boxes, sections, or as entire chapters. They illustrate success stories, but also

lessons to be remembered, to avoid repeating the same mistakes. Based on consolidated state-of-the-art knowledge, it has been conceived and written to attract a multidisciplinary audience. The aim of this handbook is to facilitate understanding between the participants of the international water discourse and multi-level decision making processes. Knowing more about water, but also about concepts, methods and aspirations of different professional, disciplinary communities and stakeholders professionalizes the debate and enhances the decision making.

Indian Books in Print - 2003

*Unmanned Aerial Vehicles for Internet of Things (IoT) - Vandana Mohindru 2021-08-03*  
UNMANNED AERIAL VEHICLES FOR INTERNET OF THINGS This comprehensive book deeply discusses the theoretical and technical issues of unmanned aerial vehicles for deployment by industries and civil authorities in Internet of

Things (IoT) systems. Unmanned aerial vehicles (UAVs) has become one of the rapidly growing areas of technology, with widespread applications covering various domains. UAVs play a very important role in delivering Internet of Things (IoT) services in small and low-power devices such as sensors, cameras, GPS receivers, etc. These devices are energy-constrained and are unable to communicate over long distances. The UAVs work dynamically for IoT applications in which they collect data and transmit it to other devices that are out of communication range. Furthermore, the benefits of the UAV include deployment at remote locations, the ability to carry flexible payloads, reprogrammability during tasks, and the ability to sense for anything from anywhere. Using IoT technologies, a UAV may be observed as a terminal device connected with the ubiquitous network, where many other UAVs are communicating, navigating,

controlling, and surveilling in real time and beyond line-of-sight. The aim of the 15 chapters in this book help to realize the full potential of UAVs for the IoT by addressing its numerous concepts, issues and challenges, and develops conceptual and technological solutions for handling them. Applications include such fields as disaster management, structural inspection, goods delivery, transportation, localization, mapping, pollution and radiation monitoring, search and rescue, farming, etc. In addition, the book covers: Efficient energy management systems in UAV-based IoT networks IoE enabled UAVs Mind-controlled UAV using Brain-Computer Interface (BCI) The importance of AI in realizing autonomous and intelligent flying IoT Blockchain-based solutions for various security issues in UAV-enabled IoT The challenges and threats of UAVs such as hijacking, privacy, cyber-security, and physical safety. Audience: Researchers in computer science, Internet of

Things (IoT), electronics engineering, as well as industries that use and deploy drones and other unmanned aerial vehicles.

Engineering Physics - D. K. Bhattacharya 2015

Engineering Physics is primarily designed to serve as a textbook for undergraduate students of engineering. It will also serve as a reference book for undergraduate science (B Sc) students, scientists, technologists, and practitioners of various branches of engineering. The book thoroughly explains all relevant and important topics in an easy-to-understand manner. Beginning with a detailed discussion on optics, the book goes on to discuss waves and oscillations, architectural acoustics, and ultrasonics in Part I. The basic principles of classical mechanics, relativistic mechanics, quantum mechanics, and statistical mechanics are included under Part II. Electromagnetism-related topics, namely dielectric properties, magnetic

properties, and electromagnetic field theory are explained under Part III. Part IV provides an in-depth treatment of topics such as X-rays, crystal physics, band theory of solids, and semiconductor physics. It also covers conducting and superconducting materials. Topics such as nuclear physics, radioactivity, and new engineering materials and nanotechnology are presented in the last section of the book. The text also contains useful appendices on SI units, important physical and lattice constants, periodic table, and properties of semiconductors and relevant compounds for ready reference. Plenty of solved examples, well-labelled illustrations and chapter-end exercises are provided in every chapter for better understanding of the concepts and their applications.

A Handbook for Letter Writing  
- SC Gupta 2018-04-20

A Handbook for Letter Writing' is a comprehensive & exhaustive book which has

been designed to help in learning the art and techniques of writing letters. The words and language that are being used while writing a letter not only shows our knowledge but also reflects our personality. The present book on letter writing has been divided into five chapters namely An Introduction of Letter Writing, Informal Letters, Formal Letters, Reference/ Recommendation Letters and Email. This book contains various types of letters - Personal, Business Letters, Applications, Official Letters, Application Writing, Apology, Condolence, etc. The book also contains the E-mailing, Report Writing and Press Release sections. A simple and easy language with the latest pattern has been used in this book. This book will also help you in developing the research and writing skills. *Antenna and Wave Propagation* - Sisir K. Das 2013

**Basic Civil Engineering** - Dr. B.C. Punmia 2003-05

**A Textbook of Engineering Physics** - M N Avadhanulu  
1992

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.

**Green Synthesis Of CdO Nanoparticles** - Dr S. Gopi  
2022-04-28

Synopsis - about 500 words (to enable the cover designer to understand the theme of the book and would not be printed on the book) Chapter I consists of the fundamentals of nanotechnology, properties of semiconductor oxide materials and its applications. Chapter II deals with the literature survey of different preparation methods of Cadmium Oxide nanoparticles. Also, the

objectives and the significant of the present method of synthesis are explained. Chapter III presents the green synthesis procedure of CdO nanoparticles. The characterization techniques like XRD, UV-DRS, PL, FT-IR, FE-SEM, EDAX, HR-TEM are used to analyze the bare and different extract mediated synthesis of CdO nanoparticles. The procedures to perform the photocatalytic, antibacterial and antifungal activities are discussed in this chapter itself. Chapter IV focuses the preparation of CdO nanoparticles under four different leaves of extract such as without extract by combustion method (Part A), hibiscus rosa sinensis leaf extract (Part B) Aloe Barbadensis Miller extract a (Part C) and Azadirachta indica (neem) leaf extract (Part D). The significant change in particle size, morphology and optical properties are analyzed. Chapter V presents the preparation of CdO nanoparticles under three parts from root flowers such as

Dalia flower extract (Part A), Polianthes tuberosa extract (Part B) and clitoria ternatea flower extract (Part C). The influences on extracts on morphological changes are also discussed in this chapter. Chapter VI contains the preparation of CdO nanoparticles under three parts from vegetables such as solanum tuberosum vegetable extract (Part A), sechium edule vegetable extract (Part B) and the Abelmoschus esculentus extract was found to influence more on morphological change and possessed fine crystallinity, uniform distribution, less agglomeration, clear tetrahedral shape. This formation reveals that the 30 ml of the Abelmoschus esculentus extract was suitable as a reducing agent. The XRD pattern confirms the cubic structure with average particle size of 89 nm to 18 nm (Part C). Chapter VII contains the preparation of CdO nanoparticles under three parts from natural flowers such as hibiscus rosa sinensis flower

extract (Part A), nerium-oleander flower extract (Part B) and jasminum sambac flower extract (Part C). The influence of extracts on particle size and morphology are discussed. Chapter VIII deals with role of chemical surfactants like n-hepane, polyimide, SDS, PVB and PVA on morphology of CdO nanoparticles. The certain observed significant results due to influence of green extract samples are compared with the chemical surfactant based samples and it discussion in conclusion part of this thesis. Chapter IX deals with the application part like photocatalytic activity of methylene blue under solar irradiation. Also this chapter consists of antibacterial and fungal activity on Staphylococcus aureus, Escherichia coli and antifungal activity on Candida albicans and Aspergillus niger under the zone inhabitation of CdO nanoparticles. Chapter X focuses the summary of results and conclusion of the thesis. The Landau Theory of Phase

Transitions - J C Tolédano  
1987-08-01

The contents of this book stems from three different objectives. First, it is an introduction to the basic principles and techniques of Landau's theory, which is intended for teaching purposes. A second purpose of the book provides the practical methods for applying Landau's theory to complex systems. The last objective of the book is to incorporate the developments which have arisen in the last fifteen years from the extensive application of the theory to a variety of physical systems.

*Educative JEE Mathematics* -  
K.D. Joshi 2004-03

**Engineering Physics** -  
Hitendra K. Malik 2009

*B.Sc. Practical Physics* - CL  
Arora 2001

B.Sc. Practical Physics  
**Commonwealth Universities  
Yearbook** - Association of  
Commonwealth Universities  
1995

**Recent Developments in  
Sustainable Infrastructure** -

Bibhuti Bhusan Das 2021-07-11

This book comprises select peer-reviewed proceedings of the International Conference on Recent Developments in Sustainable Infrastructure (ICRDSI) 2019. The topics span over all major disciplines of civil engineering with regard to sustainable development of infrastructure and innovation in construction materials, especially concrete. The book covers numerical and analytical studies on various topics such as composite and sandwiched structures, green building, groundwater modeling, rainwater harvesting, soil dynamics, seismic resistance and control of structures, waste management, structural health monitoring, and geo-environmental engineering. This book will be useful for students, researchers and professionals working in sustainable technologies in civil engineering.

**Engineering Physics Theory  
And Experiments** - S.K.  
Srivastava 2006

This Book Is Based On The  
Common Core Syllabus Of Up

Technical University. It explains, in a simple and systematic manner, the basic principles and applications of engineering physics. After explaining the special theory of relativity, the book presents a detailed analysis of optics. Scalar and vector fields are explained next, followed by electrostatics. Magnetic properties of materials are then described. The basic concepts and applications of X-rays are highlighted next. Quantum theory is then explained, followed by a lucid account of lasers. After explaining the basic theory, the book presents a series of interesting experiments to enable the students to acquire a practical knowledge of the subject. A large number of questions and model test papers have also been added. Different chapters have been revised and more numerical problems as per requirement have been added. The book would serve as an excellent text for first year engineering students.

Diploma students would also find it extremely useful. Fiber and Textile Engineering in Drug Delivery Systems - Navneet Sharma 2022-12-09  
Fiber and Textile Engineering in Drug Delivery Systems explains how innovative textile processing methods including rotary spinning, microfluidics, wet spinning and electrospinning can be used to produce novel drug delivery solutions. This topical book provides detailed descriptions of how to produce such new materials for this purpose, with foundational content to help readers from a range of backgrounds understand the context of material selection and design decisions. Emphasis is given to the engineering side of the manufacturing of the textile and its role in drug delivery, but this also acts as a guide to pharmaceutical applications of textile fibers for materials scientists. Drug delivery research is rapidly expanding and experimenting with new materials to drive improved clinical outcomes as the efficacy of the therapeutic

molecule is highly dependent on the right choice of carrier system. Recently, fiber based carriers at both nano and micro scales are gaining interest in the scientific community due to ease of manufacturing, high surface area to volume ratio, desirable drug release kinetics and high mechanical strength.

Describes methods for material selection and design for drug delivery systems Provides case studies to explain how these techniques can be applied successfully Covers the regulatory and legal aspects of the use of the textiles and fibers in drug delivery