
Gaur Gupta Engineering Physics

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Indian Books
John Wiley & Sons
"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.

**Advances in
Engineering**

Materials New Age

International

This book presents an extensive collection of the recent findings and innovative research in the information system and knowledge engineering domain.

Knowledge

engineering is a field within artificial intelligence that develops in particular systems that use knowledge, rather than data, to solve many computing problems, that would usually require high levels of human expertise.

**Applied Impact
Mechanics** S.

Chand Publishing

Engineering

Physics is designed

as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

Advanced

Engineering

Mathematics, 22e

S. Chand

Publishing

The present book **Microbial Synthesis of Nanomaterials** is written mainly for the public's acquaintance with the synthesis and characterisation of different types of nanomaterials

(NMs) and their

sustainable

applications in

various fields. The

nano-era began the

late 1990s, after

which the

production of NMs

increased rapidly

and is expected to

reach 1.663 million

tons by the end of

2021. Recent

findings have shown

that NMs play a

vital role in various

fields like

agriculture, food

industries,

environment,

medicine and

pharmaceutical,

electronics, and so

on. Microorganisms

play a key role in the

formation and

transformation of

nanoscale minerals

in the environment.

These natural

processes can be harnessed for the green synthesis of nanomaterials for a diverse array of commercial, industrial and environmental applications, presenting a sustainable alternative to more traditional physiochemical synthesis routes. This new book consists of 15 chapters which provide comprehensive knowledge about the synthesis of NMs and offer a critical overview of the current understanding of nanoparticle synthesis using microbes, covering NMs' synthesis,

characterisation and applications, and providing discussion on future prospects. The editors believe that this book will be helpful to researchers, the scientific community, academicians, business farmers and policy makers. The editors thankfully acknowledge the financial support of the Russian Foundation for Basic Research, project no. 19-05-50097 and of the Ministry of Science and Higher Education of the Russian Federation within the framework of the state task in the field of scientific activity (no.

0852-2020-0029). Techniques, Practices and Applications New Age International In recent years, the Medical Internet of Things (MIoT) has emerged as one of the most helpful technological gifts to mankind. With the incredible development in data science, big data technologies, IoT and embedded systems, it is now possible to collect a huge amount of

sensitive and personal data, compile it and store it through cloud or edge computing techniques. However, important concerns remain about security and privacy, the preservation of sensitive and personal data, and the efficient transfer, storage and processing of MIoT-based data. Medical Internet of Things: Techniques, Practices and Applications is

an attempt to explore new ideas and novel techniques in the area of MIoT. The book is composed of fifteen chapters discussing basic concepts, issues, challenges, case studies and applications in MIoT. This book offers novel advances and applications of MIoT in a precise and clear manner to the research community to achieve in-depth

knowledge in the field. This book will help those interested in the field as well as researchers to gain insight into different concepts and their importance in multifaceted applications of real life. This has been done to make the book more flexible and to stimulate further interest in the topic. Features: A systematic overview of concepts in Medical Internet of

Things (MIoT) is included. Recent research and some pointers on future advancements in MIoT are discussed. Examples and case studies are included. It is written in an easy-to-understand style with the help of numerous figures and datasets. This book serves as a reference book for scientific investigators who are interested in working on

MIoT, as well as researchers developing methodology in this field. It may also be used as a textbook for postgraduate-level courses in computer science or information technology. Comprehensive Semiconductor Science and Technology Tata McGraw-Hill Education RNAi technology is used for large-scale screens that systematically shut down each gene in the cell, which can help

identify the components necessary for a particular cellular process or an event such as cell division. Exploitation of the pathway is also a promising tool in biotechnology and medicine. Introducing new technology in the study of RNA Silica-based Organic-inorganic Hybrid Nanomaterials: Synthesis, Functionalization And Applications In The Field Of Catalysis CRC Press This

publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology,

medical physics, dosimetry or radiotherapy technology. Engineering Physics World Scientific 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. Environmental Chemistry, Seventh Edition Nova Science Publishers This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the vari

ous universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various

universities. Semiconductor-Based Sensors Springer Science & Business Media 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. RNAi Technology Universities Press 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. Engineering Physics-I 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 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
A Textbook of Engineering Physics Physics for Engineers
Engineering Physics is designed to cater to the needs of first year undergraduate engineering students.
Written in a lucid style, this book assimilates the best practices of conceptual pedagogy, dealing at length with various topics such as crystallography,

principles of quantum mechanics, free electron theory of metals, dielectric and magnetic properties, semiconductors, nanotechnology, etc.
Radiation Oncology
Physics S. Chand Publishing
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.
Versatile Solicitations of Materials Science in Diverse Science Fields
CRC Press

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. Directory Tata McGraw-Hill Education The book is designed to serve as a textbook for an introductory course in physics

for the first year B.E. Students of Anna University, Chennai and RTM Nagpur University, Nagpur. The book is written with the distinctive objectives of providing the students a single source of material as per the syllabi and solid foundation in physics. Engineering may be broadly called applied physics, which developed itself through application of principles of basic physics. The fundamental discoveries in physics are harnessed by engineering; and in turn, engineering paved way to more discoveries

in physics.
Engineering
Physics for BSc
and BE Students
Walter de
Gruyter GmbH
& Co KG
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 stud
ents, 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.
B.Sc. Practical
Physics IAEA
Engineering
Physics, 2e,
provides a
comprehensive
overview of the
subject for first
year
engineering
students. It
provides an
excellent
coverage of the
syllabus for all
major
universities.
The book
emphasizes on

tutorial approach
(teach-by-
example)
towards the
subject. Ample
solved examples
and rich
pedagogical pool
will help the
students
understand the
subject matter
and prepare
them for the
questions asked
in examination.
Salient Features:
- Revised
chapter on
Nanoscience and
Nanotechnology
in view of recent
advances in the
field - New
chapter on
Simple Harmonic
Motion and
Sound Waves -
Revised and
updated topics

<p>like Sound Waves and Acoustics of Buildings, Applied Nuclear Physics and Quantum Mechanics - New topics on Ultrasonic Waves and Their Absorption, Length Contraction and Time Dilation - Rich pool of pedagogy -- Solved Examples : 540 -- Objective Type Questions : 480+ -- Short Answer Questions : 222 -- Practice Problems : 560 -- Unsolved Questions : 132 S.Chand Engineering</p>	<p>Physics Springer Science & Business Media This book provides a comprehensive summary of the status of emerging sensor technologies and provides a framework for future advances in the field. Chemical sensors have gained in importance in the past decade for applications that include homeland security, medical and environmental monitoring and also food safety. A desirable goal is the ability to</p>	<p>simultaneously analyze a wide variety of environmental and biological gases and liquids in the field and to be able to selectively detect a target analyte with high specificity and sensitivity. The goal is to realize real-time, portable and inexpensive chemical and biological sensors and to use these as monitors for handheld gas, environmental pollutant, exhaled breath, saliva, urine, or blood, with wireless capability. In the</p>
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medical area, frequent screening can catch the early development of diseases, reduce the suffering of patients due to late diagnoses, and lower the medical cost. For example, a 96% survival rate has been predicted in breast cancer patients if the frequency of screening is every three months. This frequency cannot be achieved with current methods of mammography due to high cost to the patient and invasiveness (radiation). In the area of detection of medical biomarkers, many different methods, including enzyme-linked immunosorbent assay (ELISA), particle-based flow cytometric assays, electrochemical measurements based on impedance and capacitance, electrical measurement of microcantilever resonant frequency change, and conductance measurement of semiconductor nanostructures, gas chromatography (GC), ion chromatography, high density peptide arrays, laser scanning quantitative analysis, chemiluminescence, selected ion flow tube (SIFT), nanomechanical cantilevers, bead-based suspension microarrays, magnetic biosensors and mass spectrometry (MS) have been employed. Depending on the sample condition, these methods may show variable results in terms of sensitivity for some

applications and may not meet the requirements for a handheld biosensor.

A TEXTBOOK OF ENGINEERING CHEMISTRY
PHI Learning Pvt. Ltd.

This book is intended to help the reader understand impact phenomena as a focused application of diverse topics such as rigid body dynamics, structural dynamics, contact and continuum

mechanics, shock and vibration, wave propagation and material modelling. It emphasizes the need for a proper assessment of sophisticated experimental/computational tools promoted widely in contemporary design. A unique feature of the book is its presentation of several examples and exercises to aid further understanding of the physics and mathematics of

impact process from first principles, in a way that is simple to follow.