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Engineering Physics

Gaur And Gupta Engineering Physics

"Designed for an introductory course on Biochemical Engineering, this book interweaves bioprocessing with chemical reaction engineering

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concepts"--Back cover.

B.Sc. Practical Physics

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

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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

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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.

The Theoretical Minimum

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Modern Engineering Physics
Advances in Design, Simulation and
Manufacturing V
Semiconductor-Based Sensors
Methods, Models and Tools
**Engineering Physics is designed
to cater to the needs of first year**

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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

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**electron theory of metals,
dielectric and magnetic
properties, semiconductors,
nanotechnology, etc.
Currently the field of
nanocatalysis is undergoing
many exciting developments and
the design of silica-based organic-**

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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

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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

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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

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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

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protecting human health and the environment.

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-

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**offshore, maritime, aerospace
and civil engineering; machine
components; chemical
engineering applications, and so
on.**

Modern physics

Acoustics, Waves and Oscillations

Introduction to Nano

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Radiation Oncology Physics Lasers

This book covers the basics of nanotechnology and provides a solid understanding of the subject. Starting from a brush-up of the basic

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quantum mechanics and materials science, the book helps to gradually build up understanding of the various effects of quantum confinement, optical-electronic properties of nanoparticles and major

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nanomaterials. The book covers the various physical, chemical and hybrid methods of nanomaterial synthesis and nanofabrication as well as advanced characterization techniques. It includes chapters on the various

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applications of nanoscience and nanotechnology. It is written in a simple form, making it useful for students of physical and material sciences.

"Advanced Engineering Mathematics" is written for

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the students of all
engineering disciplines.
Topics such as Partial
Differentiation,
Differential Equations,
Complex Numbers, Statistics,
Probability, Fuzzy Sets and
Linear Programming which are

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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

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otherwise difficult
concepts.

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

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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

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knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

Directory

Silica-based Organic-
inorganic Hybrid

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Nanomaterials: Synthesis,
Functionalization And
Applications In The Field Of
Catalysis

Basic Electrical Engineering
Versatile Solicitations of
Materials Science in Diverse
Science Fields

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S.Chand Engineering Physics

**This book reports on
topics at the interface
between manufacturing
and materials
engineering, with a
special emphasis on**

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**smart and sustainable
manufacturing. It
describes innovative
research in design
engineering and
manufacturing
technology, covering the**

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**development and
characterization of
advanced materials
alike. It also discusses
key aspects related to
ICT in engineering
education. Based on the**

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**5th International
Conference on Design,
Simulation,
Manufacturing: The
Innovation Exchange
(DSMIE-2022), held on
June 7-10, 2022, in**

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Poznan, Poland, this first volume of a 2-volume set provides academics and professionals with extensive information on trends and technologies,

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**and challenges and
practice-oriented
experience in all the
above-mentioned areas.
This publication is
aimed at students and
teachers involved in**

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**teaching programmes in
field of medical
radiation physics, and
it covers the basic
medical physics
knowledge required in
the form of a syllabus**

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**for modern radiation
oncology. The
information will be
useful to those
preparing for
professional
certification exams in**

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**radiation oncology,
medical physics,
dosimetry or
radiotherapy technology.
Semiconductors are at
the heart of modern
living. Almost**

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**everything we do, be it
work, travel,
communication, or
entertainment, all
depend on some feature
of semiconductor
technology.**

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**Comprehensive
Semiconductor Science
and Technology captures
the breadth of this
important field, and
presents it in a single
source to the large**

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**audience who study,
make, and exploit
semiconductors. Previous
attempts at this
achievement have been
abbreviated, and have
omitted important**

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topics. Written and Edited by a truly international team of experts, this work delivers an objective yet cohesive global review of the

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semiconductor world. The work is divided into three sections. The first section is concerned with the fundamental physics of semiconductors, showing

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**how the electronic
features and the lattice
dynamics change
drastically when systems
vary from bulk to a low-
dimensional structure
and further to a**

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nanometer size.

Throughout this section there is an emphasis on the full understanding of the underlying physics. The second section deals largely

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**with the transformation
of the conceptual
framework of solid state
physics into devices and
systems which require
the growth of extremely
high purity, nearly**

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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

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**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**

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**complete description of
one aspect of the whole
Written and Edited by a
truly international team
of experts**

**Advanced Engineering
Mathematics, 22e**

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Engineering Physics
A Handbook for Teachers
and Students
Diversity, Interaction
and Management
B.Sc. Practical Physics

This book explores the latest advances in our

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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

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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,

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planners and policy makers.

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

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environmental monitoring and also food safety. A desirable goal is the ability to 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

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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 medical area, frequent screening can catch the early development of diseases, reduce the suffering of patients due to late diagnoses, and lower the medical

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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

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methods, including enzyme-linked immunsorbent 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

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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

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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.

"Materials science influences all aspects of society, including the current challenges of environmental issues and of sustainable energy. It also impacts our daily life,

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because it studies common materials like nanomaterials, composites, hybrid materials, glass, and plastic. Materials science tries to improve these materials in ways such as adding scratch resistance to glass. This science also commonly studies composite materials. This book was motivated by the desire to broaden

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knowledge and use this knowledge to develop new materials for the utility of mankind. There are innumerable tools currently available that focus on specific knowledge that can largely serve the scientific community. However, this book also explores social issues and outlines applications of different materials.

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Additionally, this book presents research-based practices related to the usage of advanced materials and covers the application of nanomaterials in solar energy and medicine. The didactic approach of this book is perfectly suited to science and engineering students, as well as to biologists, physicists, or chemists who are not

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specialized in materials but who, nevertheless, wish to learn about this discipline. This work will also be appreciated by specialists in a particular aspect of materials science wishing to have a global view on the subject and to position their activity in a wider context"--

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*7th New Delhi World Book Fair, 7-17
February 1986*

*Knowledge Engineering for Modern
Information Systems
IECON.*

*The third volume in the
bestselling physics series*

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cracks open Einstein's special relativity and field theory Physicist Leonard Susskind and data engineer Art Friedman are back. This time, they introduce readers to Einstein's special relativity and Maxwell's

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*classical field theory.
Using their typical brand of
real math, enlightening
drawings, and humor,
Susskind and Friedman walk
us through the complexities
of waves, forces, and
particles by exploring*

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special relativity and electromagnetism. It's a must-read for both devotees of the series and any armchair physicist who wants to improve their knowledge of physics' deepest truths. This book presents the

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*theory of waves and
oscillations and various
applications of acoustics in
a logical and simple form.
The physical principles have
been explained with
necessary mathematical
formulation and supported by*

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experimental layout wherever possible. Incorporating the classical view point all aspects of acoustic waves and oscillations have been discussed together with detailed elaboration of modern technological

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applications of sound. A separate chapter on ultrasonics emphasises the importance of this branch of science in fundamental and applied research. The book is expected to present to its readers a comprehensive

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presentation of the subject-matter and at the same time to guide him for independent thinking on some new lines of investigation.

Carbon nanotubes have been studied extensively in relation to fullerenes, and

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*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*

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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

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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

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*future work on carbon
nanotubes.*

*Neo-Thinking on Ganges-
Brahmaputra Basin*

Geomorphology

Plant Viruses

*Basics to Nanoscience and
Nanotechnology*

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*Mechanics of Composite
Materials and Structures
Fundamentals and
Applications*

**Ever since their invention
in 1960, lasers have
assumed tremendous**

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importance in the fields of science, engineering and technology because of their use both in basic research and in various technological applications. Lasers:

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*Theory and Applications
2nd Edition will provide a
coherent presentation of
the basic physics behind
the working of the laser
along with some of their
most important*

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applications. Numerical examples are scattered throughout the book for helping the student gain a better appreciation of the concepts and problems at the end of each chapter

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and provides the student a better understanding of the basics and help in applying the concepts to practical situations. This book serves as a text in a course on lasers and their

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*applications for students
majoring in various
disciplines such as
Physics, Chemistry and
Electrical Engineering.
This book is intended to
serve as a textbook of*

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*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,*

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laser, optical fibres and holography have been included. Physics is best learnt by conceptualization of the involved principles and to help the students

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conceptualize the involved principles, the text has been presented in an easy to understand manner.

Large number of solved numericals have been included in the book to

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give a quantitative idea of the subject. Exercises and unsolved numericals have been given at the end of each chapter for practice. The book will also be useful for the

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*students taking various
competitive examinations.
Any good text
book, particularly that in
the fast changing fields
such as engineering &
technology, is not only*

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*expected to cater to the
current curricular
requirements of various
institutions but also
should provided a glimpse
towards the latest
developments in the*

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concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Physics for Engineers

Physics and Engineering of

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New Materials

*Proceedings of the 5th
International Conference
on Design, Simulation,
Manufacturing: The
Innovation Exchange,
DSMIE-2022, June 7-10,*

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*2022, Poznan, Poland -
Volume 1: Manufacturing
and Materials Engineering
The Hall Effect and Its
Applications
Carbon Nanotubes
A Textbook of Engineering*

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Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and

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provided them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In

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this new edition the contents are fine-tuned, modernized and updated at various stages. This book on Engineering Chemistry has been entirely rewritten in

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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

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various universities of
India, topics like
transition metals,
coordination
compounds, crystal field
theory, gaseous and liquid
states, adsorption, flame

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photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A largenumber of solved

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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

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examinations of various
universities.

In 1879, while a graduate
student under Henry
Rowland at the Physics
Department of The Johns
Hopkins University, Edwin

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Herbert Hall discovered what is now universally known as the Hall effect. A symposium was held at The Johns Hopkins University on November 13, 1979 to commemorate the

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100th anniversary of the discovery. Over 170 participants attended the symposium which included eleven invited lectures and three speeches during the luncheon. During the

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past one hundred years, we have witnessed ever expanding activities in the field of the Hall effect. The Hall effect is now an indispensable tool in the studies of many branches

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of condensed matter physics, especially in metals, semiconductors, and magnetic solids. Various components (over 200 million!) that utilize the Hall effect have been

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successfully incorporated into such devices as keyboards, automobile ignitions, gaussmeters, and satellites. This volume attempts to capture the important aspects of

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the Hall effect and its applications. It includes the papers presented at the symposium and eleven other invited papers. Detailed coverage of the Hall effect in amorphous

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and crystalline metals and alloys, in magnetic materials, in liquid metals, and in semiconductors is provided. Applications of the Hall effect in space

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technology and in studies of the aurora enrich the discussions of the Hall effect's utility in sensors and switches. The design and packaging of Hall elements in

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integrated circuit forms
are illustrated.

A Textbook of Engineering
Physics
Comprehensive
Semiconductor Science and
Technology

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Engineering Chemistry
Engineering Physics-I
Special Relativity and
Classical Field Theory
*Physics For Engineers Is A
Text Book For Students
Studying A Course In*

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*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*

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*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*

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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

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*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.*

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

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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

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*high levels of human
expertise.*

*This book presents the
majority of the contributions
to the Tenth German-
Vietnamese Seminar on
Physics and Engineering*

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(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

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systems, related investigation methods, and practical applications. Accordingly the sections in this book are entitled electrons: transport and confinement, low-

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*dimensional systems,
magnetism, oxidic materials,
organic films, new materials,
and methods. The series of
German-Vietnamese
seminars was initiated and
sponsored by the Gottlieb*

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*Daimler- and Karl Benz
-Foundation since 1998 and
took place alt- nately in both
countries. These bilateral
meetings brought together
top-notch senior and junior
Vietnamese scientists with*

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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

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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,

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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,

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which is very useful for fast developing countries like Vietnam. On the other hand, the seminars took profit from the strong cro- fertilization of the different disciplines of physics. This book is

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dedicated to the tenth anniversary of the seminars and nicely shows the scientific progress in Vietnam and the competitive level reached.

A TEXTBOOK OF

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Engineering Physics

ENGINEERING CHEMISTRY
Introduction to Biochemical
Engineering
Engineering Physics for BSc
and BE Students
Textbook Of Engineering
Physics -

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A Textbook Of Applied Physics

Plant viruses are significant as they affect our food supply and are capable of rapidly spreading to new plant species, so a comprehensive study of plant viruses is important

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in understanding their pathogenesis and prevention. This book focuses on the plant virus evolution, their molecular classification, epidemics and management. The key features in the book includes genome organization, translation and

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***replication, virus-coded
proteinases, structure of virus
particles, cell receptors and host
range, the RNA polymerase,
quasispecies dynamics and virus
evolution, and its natural habitats.
Engineering Physics is designed as
a textbook for first year***

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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-

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explanatory figures.

***Physics for Engineers New Age
International***