
Gaur Gupta

Engineering Physics

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Introduction to Nano
Solid State Physics
Special Relativity and Classical Field Theory
Handbook Chemistry
Basics of Agriculture for Engineers (Pbk)
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Modern Engineering Physics
Practical Physics
Basic Engineering Physics (M.P.)
PRODUCTION TECHNOLOGY
Applied Physics II | AICTE Prescribed Textbook -
English
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Higher Mathematics for Physics and Engineering
LSC Fundamentals of Optics
Proceedings of the 8th International Conference
on Industrial Engineering
Engineering Mathematics-II
Thermal Physics
Physics for Degree Students B.Sc.First Year
Textbook of Applied Physics
Vibrations and Waves
Thermodynamics

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Quotations
A Textbook of Engineering Physics
Mathematical Physics
Elements of Properties of Matter
Higher Engineering Mathematics
Engineering Physics: Vol. 1
Physics for Engineers
Carbon Nanomaterial Electronics: Devices and
Applications
A Textbook of Engineering Physics (Kerala)
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Engineering Physics
Springer Science &
Business Media
The M.I.T. Introductory

Physics Series is the
result of a program of
careful study, planning,
and development that
began in 1960. The
Education Research
Center at the
Massachusetts Institute
of Technology

(formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the university level. Generous support from a number of foundations provided the means for assembling and maintaining an experienced staff to co-operate with members of the Institute's Physics Department in the examination, improvement, and development of physics curriculum materials for students planning careers in the sciences. After careful analysis of objectives and the problems involved, preliminary versions of textbooks

were prepared, tested through classroom use at M.I.T. and other institutions, re-evaluated, rewritten, and tried again. Only then were the final manuscripts undertaken.

Introduction to Nano
Springer Science & Business Media
"Materials science influences all aspects of society, including the current challenges of environmental issues and of sustainable energy. It also impacts our daily life, 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 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. 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 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"--

Solid State Physics

John Wiley & Sons

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

provided them a solid

base in

physics.Successiv

editions of the book incorporated topic 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.

Special Relativity and Classical Field

Theory Springer
About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations

and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It should.

Handbook Chemistry

S. Chand Publishing
The First Edition Of This Book Was Brought Out By Wiley Eastern Ltd. In 1994. The Sixth Edition Now At Your Hand Differs From The First Edition In Many Respects. Many-Sided Changes Both Qualitatively And Quantitatively Are The Quotable Features Of This Edition. The Purpose Of This Edition Is Not Only To Initiate The Beginners Into This Fascinating Subject,

But Also To Prepare Them In This Area For The Postgraduate Examinations Conducted By Universities Spread All Over The Country. Reading This Text Book In Depth Rather Than A Casual, Go-Through May Improve The Workaholic Culture Of The Students Desiring Higher Education At IITs And Highly Graded Universities Through Gate. The Same Yardstick Is Adoptable By The Postgraduate Students In Physics And Engineering Streams Aiming To Score High Grades In The Written Tests Conducted By Upsc For Class I Posts In Various Central Government Departments And Boards.

Basics of Agriculture for Engineers (Pbk)
McGraw-Hill

Science/Engineering/Math
A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas, equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education. The authors pay special attention to issues that many engineers and students
B.Sc. Practical Physics
Springer Nature
The Book has been written keeping in mind the experiments carried out at B.Sc. level at Indian universities. It is written in an easy to understand and systematic format. Detailed description of

different apparatus, related errors and their handling is an added feature of the book. Tables of physical constants are also presented. More than one experimental method for determining a physical parameter is given so that student can appreciate the intricacies.

Modern Engineering Physics S. Chand Publishing

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.

Practical Physics

Breton Publishing Company

B.Sc. Practical Physics

Basic Engineering Physics (M.P.)

KHANNA BOOK PUBLISHING CO. PVT. LTD.

Agriculture Engineers must have the knowledge of Basics of Agriculture to perform the services in their respective field. The book entitled "Basics of Agriculture for Engineers" is a scientific approach for understanding of the problems concerning soil, plants, agricultural equipments and their management. In this book almost all the aspects related to basics of Agriculture has been covered with

the balanced approach. Language of the book is simple, presentation is lucid and unambiguous for understanding of the subject matter. This book will be highly useful for agricultural engineers and students as well as to those who are working in the relevant fields.

PRODUCTION

TECHNOLOGY S. Chand Publishing

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.

Applied Physics II |

AICTE Prescribed

Textbook - English

Springer Science & Business Media

A modern vector oriented treatment of classical dynamics and its application to engineering problems.

College Physics S.

Chand Publishing

Interference |

Diffraction |

Polarization | Lasers |

Fibreoptics | Simple

Harmonic Motion |
Wave Motion|
Ultrasonics And
Acoustics | X-Rays |
Electronicconfiguration
| General Properties Of
The Nucleus| Nuclear
Models | Natural
Radioactivity |
Nuclearreactions And
Artificial Radioactivity |
Nuclear Fission
Andfusion | Crystal
Structure | Band
Theory Of Solids|
Metals, Insulators And
Semiconductors |
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(With Lab Manual) by
Hussain
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"Applied Physics-II" is a
basic science course in
the first year of the
Diploma program in
Engineering &
Technology. Contents
of this book are
stringently aligned as
per model curriculum
of AICTE and
incorporated with the
concepts of outcomes-
based education(OBE).
Book covers seven
topics- Wave motion,
Optics, Electrostatics,
Current electricity,
Electromagnetism,
semiconductor physics
and Modern physics.
Each topic and its
subtopics are written
from the perspective of
a student's learning
and in accord with the
NEP 2020 guidelines.
Every unit comprises a
set of activities and

exercise at the end to assist the student's learning. Some salient features of the book: | Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. | Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. | Content presented in book in chronological way. | Figures, tables and equations are given to improve clarity of the topics. | Solved examples are given with systematic steps. | MCQ's, short and long answer questions and unsolved problems of understanding and above levels (Bloom's Taxonomy) are given for learning reinforcement of students and as per

OBE.
LSC Fundamentals of Optics Nova Science Publishers
 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.

Proceedings of the 8th International Conference on Industrial Engineering CRC Press

|Quantum Physics|Charged - Particle Ballistics|Electron Optics|Lenses And Eye-Pieces|Interference|Diffraction And Polarization|Nuclear Physics|Digital Electronics|Dielectrics|Lasers|Fibre Optics

**Engineering
Mathematics-II S.**

Chand Publishing

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.

Thermal Physics

Krishna Prakashan
Media

Due to the rapid expansion of the frontiers of physics and

engineering, the demand for higher-level mathematics is increasing yearly. This book is designed to provide accessible knowledge of higher-level mathematics demanded in contemporary physics and engineering. Rigorous mathematical structures of important subjects in these fields are fully covered, which will be helpful for readers to become acquainted with certain abstract mathematical concepts. The selected topics are: - Real analysis, Complex analysis, Functional analysis, Lebesgue integration theory, Fourier analysis, Laplace analysis, Wavelet analysis, Differential equations, and Tensor analysis. This book is essentially self-contained, and

assumes only standard undergraduate preparation such as elementary calculus and linear algebra. It is thus well suited for graduate students in physics and engineering who are interested in theoretical backgrounds of their own fields. Further, it will also be useful for mathematics students who want to understand how certain abstract concepts in mathematics are applied in a practical situation. The readers will not only acquire basic knowledge toward higher-level mathematics, but also imbibe mathematical skills necessary for contemporary studies of their own fields. Physics for Degree Students B.Sc.First

Year S. Chand Publishing
For physics students interested in the mathematics they use, and for math students interested in seeing how some of the ideas of their discipline find realization in an applied setting. The presentation strikes a balance between formalism and application, between abstract and concrete. The interconnections among the various topics are clarified both by the use of vector spaces as a central unifying theme, recurring throughout the book, and by putting ideas into their historical context. Enough of the essential formalism is included to make the presentation self-contained. **Textbook of Applied**

Physics Daya

Publishing House

This book covers the basics of nanotechnology and provides a solid understanding of the subject. Starting from a brush-up of the basic 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 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 applications of nanoscience and nanotechnology. It is written in a simple form, making it useful for students of physical and material sciences.

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