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# Gaur Gupta

## Engineering Physics

### Pdf Armallore

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Textbook of Applied Physics  
Introduction to Classical and Modern Optics  
Engineering Physics  
Numerical Methods For Scientific And Engineering  
Computation  
Practical Physics  
Thermodynamics  
Carbon Nanomaterial Electronics: Devices and  
Applications  
Switchgear and Protection  
Solid State Physics  
Nanotechnology Challenges  
Basic Engineering Physics (M.P.)  
Engineering Physics  
Physics for Engineers  
Special Relativity and Classical Field Theory  
A Textbook of Engineering Physics (Kerala)  
LSC Fundamentals of Optics  
Physics for Degree Students B.Sc.First Year  
A Textbook of Engineering Physics  
Isaac Asimov's Book of Science and Nature  
Quotations  
Versatile Solicitations of Materials Science in  
Diverse Science Fields

Mechanics of Composite Materials and Structures  
Higher Engineering Mathematics  
Elements of Fracture Mechanics  
B.Sc. Practical Physics  
Thermal Physics  
Numerical Methods (As Per Anna University)  
Physics and Engineering of New Materials  
Engineering Physics: Vol. 1  
Vibrations and Waves  
Digital Electronics  
Solar Energy  
PRODUCTION TECHNOLOGY  
Applied Physics II | AICTE Prescribed Textbook -  
English  
Lasers and Non-Linear Optics  
Modern Engineering Physics  
Higher Mathematics for Physics and Engineering  
Microwave Engineering  
Concepts of Modern Physics  
Proceedings of the 8th International Conference  
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A Concise Handbook of Mathematics, Physics, and  
Engineering Sciences

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**Textbook of Applied  
Physics** World  
Scientific

About the Book: This  
comprehensive  
textbook covers  
material for one  
semester course on  
Numerical Methods  
(MA 1251) for B.E./ B.  
Tech. students of Anna

University. The emphasis in the book is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner. The book is written as a textbook rather than as a problem/guide book. The textbook offers a logical presentation of both the theory and techniques for problem solving to motivate the students in the study and application of Numerical Methods. Examples and Problems in Exercises are used to explain. Introduction to Classical and Modern Optics John Wiley & Sons  
The purpose of this book, Production Technology, is to provide a comprehensive knowledge and insight

into various aspects of engineering materials, their heat and fabrication, manufacturing processes, machining and tooling techniques, non-conventional methods of machining, the cutting tools, tooling equipment and machine tools, dies, jigs and fixtures, presses etc. As computers are finding more and more usage in factories, special attention has been given for their full coverage. Other chapters have been especially added in view of the latest trends and developments taking place in the field of production. Modern practices and recent trends on automation have been covered in each chapter. A good number of important

problems collected from several universities have been solved and given at the end of each chapter.

*Engineering Physics*

New Age International 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.

*Numerical Methods For Scientific And Engineering Computation* Springer Nature

The 4th edition of this

classic text provides a thorough coverage of RF and microwave engineering concepts, starting from fundamental principles of electrical engineering, with applications to microwave circuits and devices of practical importance. Coverage includes microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers. Material on microwave and RF systems includes wireless communications, radar, radiometry, and radiation hazards. A large number of examples and end-of-chapter problems test

the reader's understanding of the material. The 4th edition includes new and updated material on systems, noise, active devices and circuits, power waves, transients, RF CMOS circuits, and more.

**Practical Physics**

Springer Science & Business Media

A concise, readable introduction to classical and modern optics. Designed for persons interested in the scientific and engineering applications of optics, as well as ophthalmic professionals. Provides a lean presentation of the entire field of optics, from the geometrical aspects of lenses to the relativity of image formation. Contains frequent references to the historical development

of optics. Contains a detailed discussion of the most modern developments such as optical data processing, holography, lasers, and laser applications. For individuals in the fields of physics, engineering, or optometry.

*Thermodynamics*

Bloomsbury Publishing

Intended to serve as a textbook of 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, laser, optical fibres and holography have been included.

Carbon Nanomaterial

Electronics: Devices

and Applications Nova

Science Publishers

This edition

encompasses the wide area joining laser physics and non-linear optics. It gives a concise account of basic physics, optical processes and a quantum mechanical treatment of the interaction of radiation with matter preparing the way for the formal development of laser. Original experiments are described in detail to give an understanding of the physical principles of laser devices.

Extensively referenced.

### **Switchgear and**

### **Protection** New Age

International

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  
*Solid State Physics S.*

Chand Publishing  
Gathers quotations

about agriculture,

anthropology,

astronomy, the atom,

energy, engineering,

genetics, medicine,

physics, science and

society, and research

*Nanotechnology*

*Challenges* New Age

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For Engineering

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for competitive

Examination.

Basic Engineering

Physics (M.P.) Tata

McGraw-Hill Education

For B.Sc I yr students

as per the new syllabus

of UGC curriculum for

all Indian Universities. The present book has two sections. Section I covers 1 which includes chapters on Mechanics, oscillations and Properties of Matter. Section II covers course 2 which includes chapters on Electricity, Magnetism and Electromagnetic theory.

*Engineering Physics*

Springer Science & Business Media

1- Applied Physics-II  
(With Lab Manual) by  
Hussain

Jeevakhan-789391505  
578(DIP126EN)

“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: I Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. I Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. I 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.

**Physics for Engineers** Basic Books

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.

*Special Relativity and Classical Field Theory*  
McGraw-Hill Science, Engineering & Mathematics  
B.Sc. Practical Physics  
A Textbook of Engineering Physics (Kerala) Springer  
Nature

This book highlights recent findings in industrial, manufacturing and mechanical engineering and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering is discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and

robotics. This book gathers selected papers presented at the 8th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia, in May 2022. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, this book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

LSC Fundamentals of Optics S. Chand Publishing  
|Quantum Physics|Charged - Particle Ballistics|Electron Optics|Lenses And Eye-Pieces|Interference|Diff

raction And Polarization|Nuclear Physics|Digital Electronics|Dielectrics|Lasers|Fibre Optics  
Physics for Degree Students B.Sc.First Year John Wiley & Sons  
"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"--

A Textbook of  
Engineering Physics

Prentice Hall

Fracture Mechanics is an essential tool to evaluate whether a component is likely to fail or not. This book has been written in a simple and step-wise manner to help readers familiarise with the basic and advanced topics. Additionally it has over 185 illustrations to further reinforce and simplify the learning process. With this coverage, the

book will be useful to professionals and students of engineering.

**Isaac Asimov's Book of Science and Nature Quotations** S.

Chand Publishing

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and

application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic

operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

*Versatile Solicitations of Materials Science in Diverse Science Fields*  
Universities Press  
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.