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Modern Engineering Physics

## GEMMA HEZEKIAH

### Principles of Engineering Physics

Pearson Education India

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.

*Principles of Engineering Physics 1*

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Nanoelectronics: Devices, Circuits and Systems explores current and emerging trends in the field of nanoelectronics, from both a devices-to-circuits and circuits-to-systems perspective. It covers a wide spectrum and detailed discussion on the field of nanoelectronic devices, circuits and systems. This book presents an in-depth analysis and description of electron transport phenomenon at nanoscale dimensions. Both qualitative and analytical approaches are taken to explore the devices, circuit functionalities and their system applications at deep submicron and nanoscale levels. Recent devices, including FinFET, Tunnel FET, and emerging materials, including graphene, and its applications are discussed. In addition, a chapter on advanced VLSI interconnects gives clear insight to the importance of these nano-transmission lines in determining the overall IC performance. The importance of integration of optics with electronics is elucidated in the optoelectronics and photonic integrated circuit sections of this book. This book provides valuable resource materials for scientists and electrical engineers who want to learn more about nanoscale electronic materials and how they are used. Shows how electronic transport works at the nanoscale level Demonstrates how nanotechnology can help engineers create more effective circuits and systems Assesses the most commonly used nanoelectronic devices, explaining which is best for different situations

**Engineering Physics** CRC Press

The Objective of this book titled Experiments in Engineering Physics appears to be fulfilled going by the increased readership & usage of the

book. The book is written with a view that it should also serve as a manual for experiments. The study material relevant to the prescribed experiments is ready with the students so that they need not search for cumbersome reference books which are some times not available to them. The workbook also saves their valuable time which can be utilized for strengthening the fundamentals of the theory component of their syllabus.

**Nanoelectronics** Pearson Education India

Interference | Diffraction | Polarization | Lasers | Fibreoptics | Simple Harmonic Motion | Wave Motion | Ultrasonics And Acoustics | X-Rays | Electronic configuration | General Properties Of The Nucleus | Nuclear Models | Natural Radioactivity | Nuclear reactions And Artificial Radioactivity | Nuclear Fission And fusion | Crystal Structure | Band Theory Of Solids | Metals, Insulators And Semiconductors | Magnetic And dielectric Properties Of Materials | Maxwell's Equations | Matter Waves And Uncertainty Principle | Quantum theory | Super-Conductivity | Statistics And Distribution laws | Scalar And Vector Fields

**Engineering Physics; Volume IV; Wave Motion and Sound** Wiley-ISTE

A comprehensive textbook on nanoelectronics covering the underlying physics, nanostructures, nanomaterials and nanodevices.

*Introduction to Nanoelectronics* New Age International

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 syllabus 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.

**Textbook Of Engineering Physics -** PHI Learning Pvt. Ltd.

A new chapter 'Dielectric' has been added to the book. A section entitled 'Answers of Some Important Questions' has been added to each chapter. Numerous worked-out problems and solutions in each chapter have been added. As in the first edition, the Exercise part of each chapter is divided into four sections: (A) Objective Type Questions, (B) Short Answer Type Questions, (C) Numerical Problems, and (D) Broad Answer Type Questions to judge the depth of understanding of the subject.

*ENGINEERING PHYSICS, Third Edition* Cambridge University Press

The introductory chapter to this book is like traveling in a time machine into past, present, and future of electric power conversion. Archeological discoveries are being transformed into the discoveries of the future. The book is an incursion to electric power conversion through electromechanical power conversion, static power conversion, and applications in the field. Each of the above-mentioned sections analyzes the knowledge gained using the experimental results of valuable research projects. Novice readers will learn how energy is converted adequately and adapted to different consumers. Advanced readers will discover different kinds of modern solutions and tendencies in the field of electric power conversion.

**Electric Power Conversion** Pearson Education India

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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.

*Modern Physics for Scientists and Engineers* PHI Learning Pvt. Ltd.

Although Concepts of Modern Physics was the first book covering the syllabi of Punjab Technical University, Jalandhar and it was accepted whole-heartedly by

students and teachers alike. However, due to the repeated changes of syllabi of P.T.U. as it being a new university, the book had to be revised and some of the chapters became redundant as these were replaced by new topics. Though the book was revised with the additional chapters, the discarded chapters also formed the part of the book.

**A Textbook of Optics** S. Chand Publishing

In this book a large number of problems have been solved to give the students an easier understanding of the subject.

*Solid State Engineering Physics (2Nd Edition)* Anshan Pub

Engineering physics is a multidisciplinary field of study which integrates principles from the diverse areas of mathematics, engineering and physics. The primary objective of this field is to develop innovative solutions for varied problems in engineering. Some of the major branches that fall under this field are accelerator physics, plasma physics, digital electronics, fiber optics, etc. This book unravels the recent studies in the field of engineering physics. It elucidates new techniques and their applications in a multidisciplinary approach. Those in search of information to further their knowledge will be greatly assisted by this book.

Engineering Physics S. Chand Publishing

This book introduces the latest methods for the controlled growth of nanomaterial systems. The coverage includes simple and complex nanomaterial systems, ordered nanostructures and complex nanostructure arrays, and the essential conditions for the controlled growth of nanostructures with different morphologies, sizes, compositions, and microstructures. The book also discusses the dynamics of controlled growth and



thermodynamic characteristics of two-dimensional nanorestricted systems. The authors introduce various novel synthesis methods for nanomaterials and nanostructures, such as hierarchical growth, heterostructures growth, doping growth and some developing template synthesis methods. In addition to discussing applications, the book reviews developing trends in nanomaterials and nanostructures.

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Engineering Physics: For PTU is designed to cater to the needs of the first-year undergraduate engineering students of PTU. Written in a lucid style, this book assimilates the best principles of conceptual pedagogy, dealing at length with various topics such as lasers, fibre optics, quantum theory and theory of relativity.

*Engineering Physics: Concepts and Applications* Prentice Hall

Engineering Physics I: For Anna University is designed to cater to the needs of the first-year undergraduate engineering students of Anna University. Written in a lucid style, this book assimilates the best principles of conceptual pedagogy, dealing at length with various topics such as Ultrasonics, Lasers, Fibre Optics, Quantum Physics and Crystal Physics.

*Principles of Physics* BoD - Books on Demand

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