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updated text now in its second edition is primarily intended as a textbook for undergraduate students of Physics. The book provides a sound understanding of the fundamental concepts of optics adopting an integrated approach to the principles of optics. It covers the requirements of syllabi of undergraduate students in Physics and Engineering in Indian Universities. The book includes a wide range of interesting topics such as Fermat's principle, geometrical optics, dispersion, interference, diffraction and polarization of light waves, optical instruments and lens aberrations. It also discusses electromagnetic waves, fundamentals of vibrations and wave motion. The text explains the concepts through extensive use of line drawings and gives full derivations of essential relations. The topics are dealt with in a well-organized sequence with proper explanations along with simple mathematical formulations. New to the SECOND Edition: Incorporates two new chapters i.e. Fundamentals of Vibrations and Wave Motion. Includes several worked-out examples to help students reinforce their comprehension of theory. Provides Formulae at a Glance and Conceptual Questions with their answers for quick revision. KEY FEATURES: Provides several Solved Numerical Problems to help students comprehend the concepts with ease. Includes Multiple Choice Questions and Theoretical Questions to help students check their understanding of the subject matter. Contains unsolved Numerical Problems with answers to build problem-solving skills.

University Physics with Modern Physics Hugh D. Young, Roger A. Freedman, 2013

University Physics with Modern Physics Technology Update, Volume 2 (Chs. 21-37) Hugh D. Young, Roger A. Freedman, 2013-01-18

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Nanoelectronics and Information Technology Rainer Waser, 2012-05-29. This outstanding textbook provides an

introduction to electronic materials and device concepts for the major areas of current and future information technology On about 1 000 pages it collects the fundamental concepts and key technologies related to advanced electronic materials and devices The obvious strength of the book is its encyclopedic character providing adequate background material instead of just reviewing current trends It focuses on the underlying principles which are illustrated by contemporary examples The third edition now holds 47 chapters grouped into eight sections The first two sections are devoted to principles materials processing and characterization methods Following sections hold contributions to relevant materials and various devices computational concepts storage systems data transmission imaging systems and displays Each subject area is opened by a tutorial introduction written by the editor and giving a rich list of references The following chapters provide a concise yet in depth description in a given topic Primarily aimed at graduate students of physics electrical engineering and information technology as well as material science this book is equally of interest to professionals looking for a broader overview Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields

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reliance on advanced mathematics It will also appeal to a broad spectrum of readers including researchers and professionals working in the disciplines of materials science and engineering applied physics and chemical engineering **Spectroscopy of Semiconductors** Wei Lu,Ying Fu,2018-07-31 The science and technology related to semiconductors have received significant attention for applications in various fields including microelectronics nanophotonics and biotechnologies Understanding of semiconductors has advanced to such a level that we are now able to design novel system complexes before we go for the proof of principle experimental demonstration This book explains the experimental setups for optical spectral analysis of semiconductors and describes the experimental methods and the basic quantum mechanical principles underlying the fast developing nanotechnology for semiconductors Further it uses numerous case studies with detailed theoretical discussions and calculations to demonstrate the data analysis Covering structures ranging from bulk to the nanoscale it examines applications in the semiconductor industry and biomedicine Starting from the most basic physics of geometric optics wave optics quantum mechanics solid state physics it provides a self contained resource on the subject for university undergraduates The book can be further used as a toolbox for researching and developing semiconductor nanotechnology based on spectroscopy **Matter and Mathematics** Andrew Younan,2022-11-11 To borrow a phrase from Galileo What does it mean that the story of the creation is written in the language of mathematics This book is an attempt to understand the natural world its consistency and the ontology of what we call laws of nature with a special focus on their mathematical expression It does this by arguing in favor of the Essentialist interpretation over that of the Humean and Anti Humean accounts It re examines and critiques Descartes notion of laws of nature following from God s activity in the world as mover of extended bodies as well as Hume s arguments against causality and induction It then presents an Aristotelian Thomistic account of laws of nature based on mathematical abstraction necessity and teleology finally offering a definition for laws of nature within this framework

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