

Chapter 1 : Modern Physics, International Edition - Clement Moses - HÅftad () | Bokus

Modern Physics, Second Edition provides a clear, precise, and contemporary introduction to the theory, experiment, and applications of modern physics. Available at www.nxgvision.com for both physics majors and engineers, this eagerly awaited second edition puts the modern back into modern physics courses.

Writing in a student-friendly and accessible manner, the authors strike the perfect balance, mixing relevant applications many new to this edition with the appropriate level of theory. A new Web-based simulation software package, QMTools, complements the text and provides modeling tools to help students visualize abstract concepts. Icons are provided throughout the text to highlight areas in which this software can enhance understanding. Proporcionar una explicacin clara y sin complicaciones matemticas de conceptos y teoras de la fsica moderna. Dar soporte a esas explicaciones mediante el uso de apli Skickas inom vardagar. Recensioner i media 1. The Principle of Relativity. Postulates of Special Relativity. Consequences of Special Relativity. Mass as a Measure of Energy. Conservation of Relativistic Momentum, Mass, and Energy. The Renaissance of General Relativity. Light Quantization and the Photoelectric Effect. The Compton Effect and X-Rays. Does Gravity Affect Light? Calculation of the Number of Modes of Waves in a Cavity. The Atomic Nature of Matter. The Composition of Atoms. Direct Confirmation of Atomic Energy Levels: The Pilot Waves of de Broglie. Wave Groups and Dispersion. The Heisenberg Uncertainty Principle. Wavefunction for a Free Particle. Wavefunctions in the Presence of Forces. The Particle in a Box. The Finite Square Well Optional. The Scanning Tunneling Microscope. Particle in a Three-Dimensional Box. Central Forces and Angular Momentum. Quantization of Angular Momentum and Energy Optional. Atomic Hydrogen and Hydrogen-like Ions. Orbital Magnetism and the Normal Zeeman Effect. Exchange Symmetry and the Exclusion Principle. Electron Interactions and Screening Effects Optional. Applications of Bose-Einstein Statistics. An Application of Fermi-Dirac Statistics: Laser Manipulation of Atoms. Molecular Rotation and Vibration. Electron Sharing and the Covalent Bond. Bonding in Complex Molecules Optional. Overlap Integrals of Atomic Wavefunctions. Classical Free-Electron Model of Metals. Quantum Theory of Metals. Band Theory of Solids. The Invention of the Laser. Some Properties of Nuclei. Binding Energy and Nuclear Forces. Recent Fusion Energy Developments. Interaction of Particles with Matter. Radiation Damage in Matter. The Fundamental Forces in Nature. Positrons and Other Antiparticles. Mesons and the Beginning of Particle Physics. Strange Particles and Strangeness. He was born and brought up in Utica, NY, and holds an A. He has over 30 years of science writing and teaching experience at the college level, and is a co-author of College Physics, 6th edition, with Serway and Faughn. His research work, both in industrial and university settings, has dealt with defects in solids, solar cells, and the dynamics of atoms at surfaces. In addition to science writing, Dr. Moses enjoys reading novels, gardening, cooking, singing, and going to operas. He came to UNC-Wilmington in Before that, he had been a member of the Physics Department at Clarkson University since He has written numerous research articles in the fields of condensed matter physics and surface science. Moyer is an experienced teacher and an advocate for the uses of computers in education. He prepared the web-based QMTools software that accompanies this text. In , he was awarded an honorary doctorate degree from his alma mater, Utica College. Serway began his teaching career at Clarkson University, where he conducted research and taught from to Alex Miller, Nobel Prize recipient. Serway also was a visiting scientist at Argonne National Laboratory, where he collaborated with his mentor and friend, the late Sam Marshall. Serway has published more than 40 research papers in the field of condensed matter physics and has given more than 60 presentations at professional meetings. Serway and his wife Elizabeth enjoy traveling, playing golf, fishing, gardening, singing in the church choir, and especially spending quality time with their four children, nine grandchildren, and a recent great-grandson.

Chapter 2 : Physics for Scientists and Engineers with Modern Physics | eBay

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About This Product Description For the calculus-based General Physics course primarily taken by engineers and science majors including physics majors. Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics. The new edition also features an unrivaled suite of media and on-line resources that enhance the understanding of physics. This book is written for students. It aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach students by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that students can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced. Features Pedagogical Features Greater clarity: No topic, no paragraph in this book was overlooked in the search to improve the clarity of the presentation. Many changes and clarifications have been made, both small and not so small. One goal has been to eliminate phrases and sentences that may slow down the principle argument: Color is used pedagogically to bring out the physics. Different types of vectors are given different colors. This book has been printed in 5 colors 5 passes through the presses to provide better variety and definition for illustrating vectors and other concepts such as fields and rays. The photographs opening each Chapter, some of which have vectors superimposed on them, have been chosen so that the accompanying caption can be a sort of summary of the Chapter. The wide range of Applications have been carefully chosen and integrated into the text so as not to interfere with the development of the physics, but rather to illuminate it. To make it easy to spot the Applications, a Physics Applied marginal note is placed in the margin. A list of Applications shall appear after the Table of Contents. Problem-Solving Boxes, found throughout the book, outline a step-by-step approach to get students thinking about and involved in the problem at hand. Step-by-Step Examples follow most Problem Solving Boxes with the next Example being worked step-by-step, following the steps of the preceding Problem Solving Box to show students how this tool can be Estimation Examples help students develop skills for making order-of-magnitude estimates, even when data is scarce, or when you might never have guessed any result was possible. New To This Edition Page Layout Great effort has been made to keep important derivations and arguments on facing pages. Provides consistency with the way students write vectors in homework and the way professors write vectors on the board. Students revisit the COQs later in the Chapter, as an Exercise, to see if their answers have changed. Answers to all Exercises are given at the end of the Chapter.

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Chapter 8 : Modern Physics For Scientists And Engineers International Edition by Stephen T. Thornton

Physics for Scientists and Engineers with Modern Physics, Chapters by Douglas C. Giancoli A copy that has been read, but remains in clean condition. All pages are intact, and the cover is intact.