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This text provides an introduction to the important physics underpinning current technologies, highlighting key concepts in areas that include linear and rotational motion, energy, work, power, heat, temperature, fluids, waves, and magnetism. This revision reflects the latest technology advances, from smart phones to the Internet of Things, and all kinds of sensors. The author also provides more modern worked examples with useful appendices and laboratories for hands-on practice. There are also two brand new chapters covering sensors as well as electric fields and electromagnetic radiation as applied to current technologies.

This one-semester survey of principles of physics for technical students emphasizes practical applications that represent a broad coverage of physics as it relates to the various technical areas. The concepts presented allow students to relate the principles of physics to practical job-related applications. The questions and problems at the end of each chapter have been carefully chosen for their realistic application to industry and for their instructional value. The only mathematics prerequisite is the algebra necessary to understand simple formulas. For teaching convenience, the more difficult sections of the text, which are optional, are identified by asterisks in the table of contents.

The field of high-power laser-plasma interaction has grown in the last few decades, with applications ranging from laser-driven fusion and laser acceleration of charged particles to laser ablation of materials. This comprehensive text covers fundamental concepts including electromagnetics and electrostatic waves, parameter instabilities, laser driven fusion,charged particle acceleration and gamma rays. Two important techniques of laser proton interactions including target normal sheath acceleration (TNSA) and radiation pressure acceleration (RPA) are discussed in detail, along with their applications in the field of medicine. An analytical framework is developed for laser beat-wave and wakefield excitation of plasma waves and subsequent acceleration of electrons. The book covers parametric oscillator model and studies the coupling of laser light with collective modes.

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' This invaluable book presents papers written during the last 40 years by Claude Cohen-Tannoudji and his collaborators on various physical effects which can be observed on atoms interacting with electromagnetic fields. It consists of a personal selection of review papers, lectures given at schools, as well as original experimental and theoretical papers. Emphasis is placed on physical mechanisms and on general approaches (such as the dressed atom approach) having a wide range of applications. Various topics are discussed, such as atoms in intense laser fields, photon correlations, quantum jumps, radiative corrections, laser cooling and trapping, Bose–Einstein condensation. In this new edition, about 200-page of new material has been added. Contents:Atoms in Weak Broadband Quasiresonant Light Fields. Lights Shifts — Linear Superpositions of Atomic SublevelsAtoms in Strong Radiofrequency Fields. The Dressed Atom Approach in the Radiofrequency DomainAtoms in Intense Resonant Laser Beams. The Dressed Atom Approach in the Optical DomainPhoton Correlations and Quantum Jumps. The Radiative Cascade of the Dressed AtomAtoms in High Frequency Fields or in the Vacuum Field. Simple Physical Pictures for Radiative CorrectionsAtomic Motion in Laser LightSisyphus Cooling and Subrecoil CoolingLévy Statistics and Laser CoolingBose–Einstein Condensation Readership: Graduate students, academics, researchers and engineers in atomic and laser physics. Keywords:Atom-Photon Interactions;Laser Cooling and Trapping;Ultracold AtomsKey Features:Each reprint in the volume is preceded by a short commentary giving its motivations, explaining how it fits in with the general evolution of the research field, and pointing out connections between works done in different periodsReviews: " For many applications on the topics of this journal, the absolute unique presentation by Cohen-Tannoudji of his research field will be most valuable. " Laser and Particle Beams " The production quality is very high; even the smallest symbols are easily readable, and some papers are reproduced in color. The clarity of the exposition, the wide range of topics, and the logic of the presentation make this a valuable teaching reference. This book is highly recommended for physicists and students working on atoms in intense laser fields, laser cooling and trapping and Bose–Einstein condensation. " Optics & Photonics News '

The book in your hands develops the best traditions of the Russian scientific popular literature. Written in a clear and captivating manner by working theoretical physicists, who are, at the same time, dedicated popularizers of scientific knowledge, it brings to the reader the latest achievements in quantum solid-state physics, but along the way it also shows how the laws of physics reveal themselves even in seemingly trivial episodes concerning the natural phenomena around us. And most importantly, it shows that we live in the world, where scientists are capable of " proving harmony with algebra " . — A A Abrikosov, 2003 Nobel Prize Winner in Physics

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