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Olaf Stenzel

Light—Matter Interaction

A Crash Course for Students of Optics,
Photonics and Materials Science

 Springer

Matter And Interaction

Sergei I. Anisimov, Viktor A. Khokhlov



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Light-Matter Interaction John Weiner, P.-T. Ho, 2008-07-11 A thorough introduction to atomic molecular and optical AMO science and engineering. Atomic molecular and optical AMO science and engineering stands at the confluence of strong scientific and technological currents in physics chemistry and electrical engineering. It seeks ways to expand our ability to use light for many purposes to observe and manipulate matter at the atomic scale to use nanostructures to manipulate light at the subwavelength scale to develop quantum devices and to control internal molecular motion and modify chemical reactivity with light. The two volume *Light Matter Interaction* draws together the principal ideas that form the basis of AMO science and engineering. Volume 1 *Fundamentals and Applications* fills many gaps left by standard courses and texts in chemical physics and electrical engineering to supply the basis of what the AMO scientist or engineer needs to build a solid foundation of understanding in the field. Organized to serve as both textbook and reliable desk reference to a diverse audience ranging from student and novice to advanced practitioner this book discusses both the fundamentals and common applications including Classical absorption and emission of radiation Quantum dipole coupling to the two level system The optical Bloch equations Quantized fields and dressed states Optical forces and cooling from atom light interaction The laser in theory and practice Geometrical and wave optics theory and applications The Gaussian beam and optical resonators.

The Physics of Laser Radiation-Matter Interaction Alexander Horn, 2022-11-20 This textbook explains the fundamental processes involved in the interaction of electromagnetic radiation with matter. It leads students from a general discussion of electrodynamics forming the mathematical foundation for the Maxwell equations to key results such as the Fresnel equations Snell's law and the Brewster angle deriving along the way the equations for accelerated charges and discussing dipole radiation Bremsstrahlung and synchrotron radiation. By considering more and more interacting particles the book advances its treatment of the subject approaching the solid state regime using both classical and quantum mechanical approaches to describe interaction paths with electromagnetic radiation. Finally specific interactions of laser radiation with matter are explained such as ultrafast coherent and selective interaction. With an emphasis on achieving an intuitive grasp of the basic physics underlying common laser technology this textbook is ideal for graduate students seeking both a better fundamental and applied understanding of laser matter interaction.

Femtosecond Laser-Matter Interaction Eugene G. Gamaly, 2011-10-06 This is the first comprehensive treatment of the interaction of femtosecond laser pulses with

solids at nonrelativistic intensity It connects phenomena from the subtle atomic motion on the nanoscale to the generation of extreme pressure and temperature in the interaction zone confined inside a solid The femtosecond laser matter interaction has already found numerous applications in industry medicine and materials science However there is no consensus on the interpretation of related phenomena With mathematics kept to a minimum this is a highly engaging and readable treatment for students and researchers in science and engineering The book avoids complex mathematical formulae and hence the content is accessible to nontechnical readers Useful summaries after each chapter provide compressed information for quick estimates of major parameters in planned or performed experiments The book connects the basic physics of femtosecond laser solid interactions to a broad range of applications Throughout the text basic assumptions are derived from the first principles and new results and ideas are presented From such analyses a qualitative and predictive framework for the field emerges the impact of which on applications is also discussed

Instabilities in Laser-Matter Interaction Sergei I.

Anisimov, Viktor A. Khokhlov, 1995-03-23 This book describes the thermal and hydrodynamic instabilities appearing in laser matter interactions at moderate intensities These instabilities result in the distortion of phase transition front dispersion of target material in condensed phase formation of dissipative surface structures generation of complex oscillatory evaporation modes and so on These effects in turn lead to the appearance of liquid droplets in an expanding vapor non uniform removal of a solid material and the enhanced light absorption in the vapor plume This book focuses on nonresonant interactions It concentrates on the range of low and moderate laser intensities that are important for technological applications of lasers Instabilities in Laser Matter Interaction provides a theoretical background to the interpretation of experimental results and an understanding of the effect of instabilities on the processes of laser technology

Laser-Matter Interaction for Radiation and Energy Hitendra K. Malik, 2021-03-14

The interaction of high power lasers with matter can generate Terahertz radiations that efficiently contribute to THz Time Domain Spectroscopy and also would replace X rays in medical and security applications When a short intense laser pulse ionizes a gas it may produce new frequencies even in VUV to XUV domain The duration of XUV pulses can be confined down to the isolated attosecond pulse levels required to study the electronic re arrangement and ultrafast processes Another important aspect of laser matter interaction is the laser thermonuclear fusion control where accelerated particles also find an efficient use This book provides comprehensive coverage of the most essential topics including Electromagnetic waves and lasers THz radiation using semiconducting materials nanostructures gases plasmas Surface plasmon resonance THz radiation detection Particle acceleration technologies X ray lasers High harmonics and attosecond lasers Laser based techniques of thermonuclear fusion Controlled fusion devices including NIF and ITER The book comprises of 11 chapters and every chapter starts with a lucid introduction to the main topic Then sub topics are sedulously discussed keeping in mind their basics methodology state of the art and future perspective that will prove to be salutary for readers High quality solved examples are appended to the chapters for

their deep understanding and relevant applications In view of the nature of the topics and their level of discussion this book is expected to have pre eminent potential for researchers along with postgraduate and undergraduate students all over the world *Light-Matter Interaction* Wendell T. Hill, III, Chi H. Lee, 2008-06-25 This book draws together the principal ideas that form the basis of atomic molecular and optical science and engineering It covers the basics of atoms diatomic molecules atoms and molecules in static and electromagnetic fields and nonlinear optics Exercises and bibliographies supplement each chapter while several appendices present such important background information as physics and math definitions atomic and molecular data and tensor algebra Accessible to advanced undergraduates graduate students or researchers who have been trained in one of the conventional curricula of physics chemistry or engineering but who need to acquire familiarity with adjacent areas in order to pursue their research goals **Light-Matter Interaction** Olaf Stenzel, 2022-02-08 This book

offers a didactic introduction to light matter interactions at both the classical and semi classical levels Pursuing an approach that describes the essential physics behind the functionality of any optical element it acquaints students with the broad areas of optics and photonics Its rigorous bottom up approach to the subject using model systems ranging from individual atoms and simple molecules to crystalline and amorphous solids gradually builds up the reader s familiarity and confidence with the subject matter Throughout the book the detailed mathematical treatment and examples of practical applications are accompanied by problems with worked out solutions In short the book provides the most essential information for any graduate or advanced undergraduate student wishing to begin their course of study in the field of photonics or to brush up on important concepts prior to an examination High-Intensity X-rays - Interaction with Matter Stefan P.

Hau-Riege, 2012-09-19 Filling the need for a book bridging the effect of matter on X ray radiation and the interaction of x rays with plasmas this monograph provides comprehensive coverage of the topic As such it presents and explains such powerful new X ray sources as X ray free electron lasers as well as short pulse interactions with solids clusters molecules and plasmas and X ray matter interactions as a diagnostic tool Equally useful for researchers and practitioners working in the field

Plasmon-enhanced light-matter interactions Peng Yu, Hongxing Xu, Zhiming M. Wang, 2022-03-01 This book highlights cutting edge research in surface plasmons discussing the different types and providing a comprehensive overview of their applications Surface plasmons SPs receive special attention in nanoscience and nanotechnology due to their unique optical electrical magnetic and catalytic properties when operating at the nanoscale The excitation of SPs in metal nanostructures enables the manipulation of light beyond the diffraction limit which can be utilized for enhancing and tailoring light matter interactions and developing ultra compact high performance nanophotonic devices for various applications With clear and understandable illustrations tables and descriptions this book provides physicists materials scientists chemists engineers and their students with a fundamental understanding of surface plasmons and device applications as a basis for future developments

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