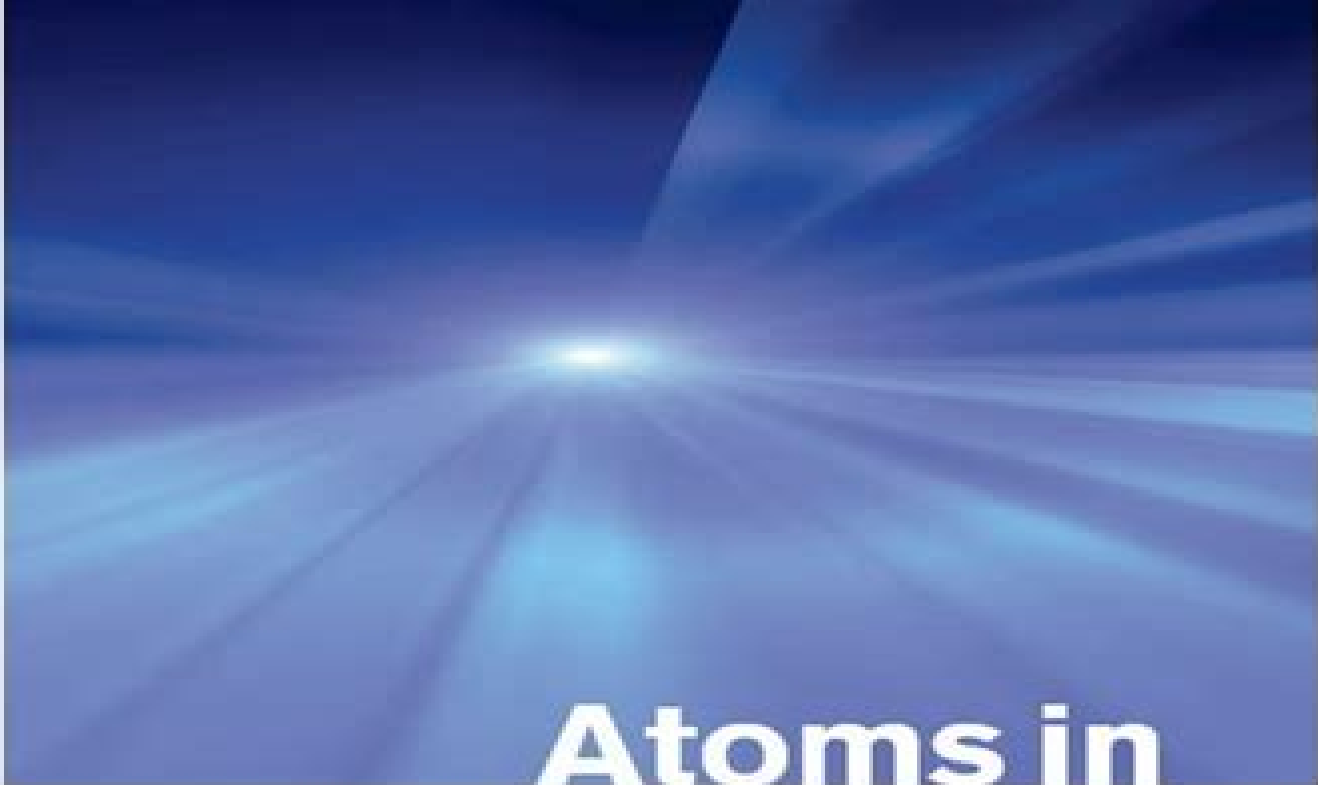




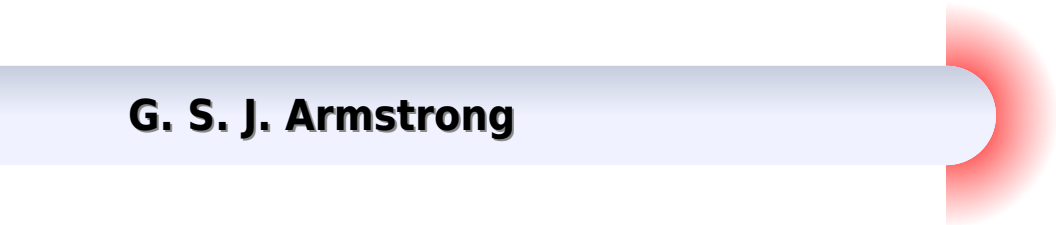
Atoms in Intense Laser Fields

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Atoms in Intense Laser Fields C. J. Joachain, N. J. Kylstra, R. M. Potvliege, 2012 A unified account of the rapidly developing field of high intensity laser atom interactions suitable for both graduate students and researchers

Atoms in Intense Laser Fields C. J. Joachain, N. J. Kylstra, R. M. Potvliege, 2011-12-15 The development of lasers capable of producing high intensity pulses has opened a new area in the study of light matter interactions The corresponding laser fields are strong enough to compete with the Coulomb forces in controlling the dynamics of atomic systems and give rise to multiphoton processes This book presents a unified account of this rapidly developing field of physics The first part describes the fundamental phenomena occurring in intense laser atom interactions and gives the basic theoretical framework to analyze them The second part contains a detailed discussion of Floquet theory the numerical integration of the wave equations and approximation methods for the low and high frequency regimes In the third part the main multiphoton processes are discussed multiphoton ionization high harmonic and attosecond pulse generation and laser assisted electron atom collisions Aimed at graduate students in atomic molecular and optical physics the book will also interest researchers working on laser interactions with matter

Atoms in Intense Laser Fields Mihai Gavrila, 1992 For graduate students laser scientists atomic molecular and optical physicists topics include the effects of superintense laser fields on multiphoton ionization and harmonic generation novel effects with ultrashort subpicosecond laser pulses and Rydberg atoms in intense microwave fields

Atoms, Solids, and Plasmas in Super-Intense Laser Fields Dimitri Batani, Charles J. Joachain, S. Martellucci, Arthur N. Chester, 2012-12-06 The recent development of high power lasers delivering femtosecond pulses of 10^{20} intensities up to 10^{14} W cm has led to the discovery of new phenomena in laser interactions with matter At these enormous laser intensities atoms and molecules are exposed to extreme conditions and new phenomena occur such as the very rapid multi photon ionization of atomic systems the emission by these systems of very high order harmonics of the exciting laser light the Coulomb explosion of molecules and the acceleration of electrons close to the velocity of light These phenomena generate new behaviour of bulk matter in intense laser fields with great potential for wide ranging applications which include the study of ultra fast processes the development of high frequency lasers and the investigation of the properties of plasmas and condensed matter under extreme conditions of temperature and pressure In particular the concept of the fast ignitor approach to inertial confinement fusion ICF has been proposed which is based on the separation of the compression and the ignition phases in laser driven ICF The aim of this course on Atom Solids and Plasmas in Super Intense Laser fields was to bring together senior researchers and students in atomic and molecular physics laser physics condensed matter and plasma physics in order to review recent developments in high intensity laser matter interactions The course was held at the Ettore Majorana International Centre for Scientific Culture in Erice from July 8 to July 14 2000

Atoms and Di-atoms in Intense Laser Fields Muhammad Raza Saeed, 1991

Super-Intense Laser—Atom Physics A. L'Huillier, Bernard Piraux, Kazimierz

Rzazewski, 2012-12-06 The rapid development of powerful pulsed lasers is at the origin of a considerable interest in studying the response of an atom a molecule or a solid to a strong electromagnetic field It is now possible to produce at the laboratory scale ultra short 13 pulses with a duration of 100 femtoseconds 10 second and a power of the order 12 of 1 terawatt 10 Watt Under these conditions very high peak intensities may be obtained and electric fields exceeding typical electron binding fields in atoms are generated The interaction of an atom or a molecule with such electromagnetic fields has a highly non linear character which leads to unexpected phenomena Amongst them above threshold ionization ATI i e the absorption of additional photons in excess of the minimal number necessary to overcome the ionization potential and its molecular counterpart above threshold dissociation ATD generation of very high harmonics of the driving field stabilization of one electron systems in strong fields These processes were the main topics of two international meetings which were held in 1989 and 1991 in the United States under the common name SILAP Super Intense Laser Atom Physics **Super-Intense**

Laser-Atom Physics IV H.G. Muller, M.V. Fedorov, 1996-05-31 Atoms in strong radiation fields are interesting objects for study and the research field that concerns itself with this study is a comparatively young one For a long period after the discovery of the photoelectric effect it was not possible to generate electro magnetic fields that did more than perturb the atom only slightly and first or er perturbation theory could perfectly explain what was going on at those low intensities The development of the pulsed laser has changed this state of affairs in a rather dramatic way and fields can be applied that really have a large or even dominant influence on atomic structure In the latter case w speak of super intense fields Since the interaction between atoms and electromagnetic waves is characterized by many parameters other than the light intensity such as frequency iQnization potential orbit time etc it is actually quite difficult to define what is exactly meant by the term super intense Obviously the term does not have an absolute meaning and intensity should always be viewed in relation to other properties of the system An atom in a radiation field can thus best be described in terms of various ratios of the quantities involved The nature of the system sometimes drastically changes if the value of one of these parameters exceeds a certain critical value and the new regime could be called super intense with respect to that parameter **Interaction of**

Atoms with Intense Laser Fields and Ultrashort Pulses Carla Figueira de Morisson Faria, 1999 **Super-Intense**
Laser-Atom Physics Bernard Piraux, Kazimierz Rzazewski, 2001-03-31 The study of atomic systems exposed to super intense laser fields de fines an important area in atomic molecular and optical physics Although the concept of super intense field has no absolute meaning it is now usual to call an electromagnetic field super intense when it exceeds the atomic binding field In the case of the simplest atomic system hydrogen in its 16 2 ground state this occurs above an intensity of $3.5 \times 10^{16} \text{ W/cm}^2$ which is the atomic unit of intensity Presently at the laboratory scale and in ex tremely short and tightly focussed laser pulses the electric field strength 16 18 2 reaches peak values which are of the order of 10^{10} W/cm^2 in the infrared frequency regime the prospect being that such peak intensities may be reached within a few years in a regime of much higher

frequencies XUV or even X The interaction of such electromagnetic fields with an atomic system has a highly non linear character which has led to the observation of to tally unexpected phenomena There are three fundamental processes which have marked the beginning of an intensive research in the field of super intense laser atom physics SILAP These processes which only involve one atomic electron are i the so called above threshold ionisation i e **Theory of High-order Processes in Atoms in Intense Laser Fields** Kenneth Kulander,1990 *High-order Radiative Processes of Atoms in Intense Laser Fields* Wei-Chih Liu,1996 **Theory and Computation of Atoms in Intense Laser Fields** Edward Stuart Smyth,1999 **Springer Handbook of Atomic, Molecular, and Optical Physics** Gordon W. F. Drake,2007-02-05 This Springer Handbook comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field Its 90 chapters written by about 120 authors all leaders in their repsective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Interaction Between Atoms and Intense Laser Field Huale Xu,1993 **Coherence Phenomena in Atoms and Molecules in Laser Fields** Andre D Bandrauk,Stephan C Wallace,1992-05-01 *Electron Dynamics of One- and Two-electron Atoms in Intense Laser Fields* G. S. J. Armstrong,2012 [Atoms and Plasmas in Super-intense Laser Fields](#) Dimitri Batani,Charles Jean Joachain,S. Martellucci,2004 **Progress in Ultrafast Intense Laser Science XVII** Kaoru Yamanouchi,Louis F. DiMauro,Wendell T. Hill, III,2024-05-29 This book covers a broad range of interdisciplinary topics focusing on atoms and molecules in intense laser fields excitation processes in intense laser fields photonics and materials high order harmonics generation XFEL high power lasers and their applications and quantum computing This seventeenth volume features contributions from world renowned researchers on topics such as applications of attosecond and femtosecond laser pulses coherence and dynamics in quantum systems and applications of super intense laser fields The PUILS series delivers up to date reviews of progress in this emerging interdisciplinary research field spanning atomic and molecular physics molecular science and optical science which has been stimulated by the recent developments in ultrafast laser technologies Each volume compiles peer reviewed articles authored by researchers at the forefront of each of their own subfields of ultrafast intense laser science Every chapter opens with an overview of the topics to be discussed so that

researchers unfamiliar with the subfield especially graduate students can grasp the importance and attractions of the research topic at hand these are followed by reports of cutting edge discoveries

Classical Trajectory Perspective of Atomic Ionization in Strong Laser Fields Jie Liu, 2013-09-30 The ionization of atoms and molecules in strong laser fields is an active field in modern physics and has versatile applications in such as attosecond physics X ray generation inertial confined fusion ICF medical science and so on *Classical Trajectory Perspective of Atomic Ionization in Strong Laser Fields* covers the basic concepts in this field and discusses many interesting topics using the semiclassical model of classical trajectory ensemble simulation which is one of the most successful ionization models and has the advantages of a clear picture feasible computing and accounting for many exquisite experiments quantitatively The book also presents many applications of the model in such topics as the single ionization double ionization neutral atom acceleration and other timely issues in strong field physics and delivers useful messages to readers with presenting the classical trajectory perspective on the strong field atomic ionization The book is intended for graduate students and researchers in the field of laser physics atom molecule physics and theoretical physics Dr Jie Liu is a professor of Institute of Applied Physics and Computational Mathematics China and Peking University

Theory and Computation of Few-electron Atoms in Intense Laser Fields L. R. Moore, 2001

Atoms In Intense Laser Fields Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Atoms In Intense Laser Fields**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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