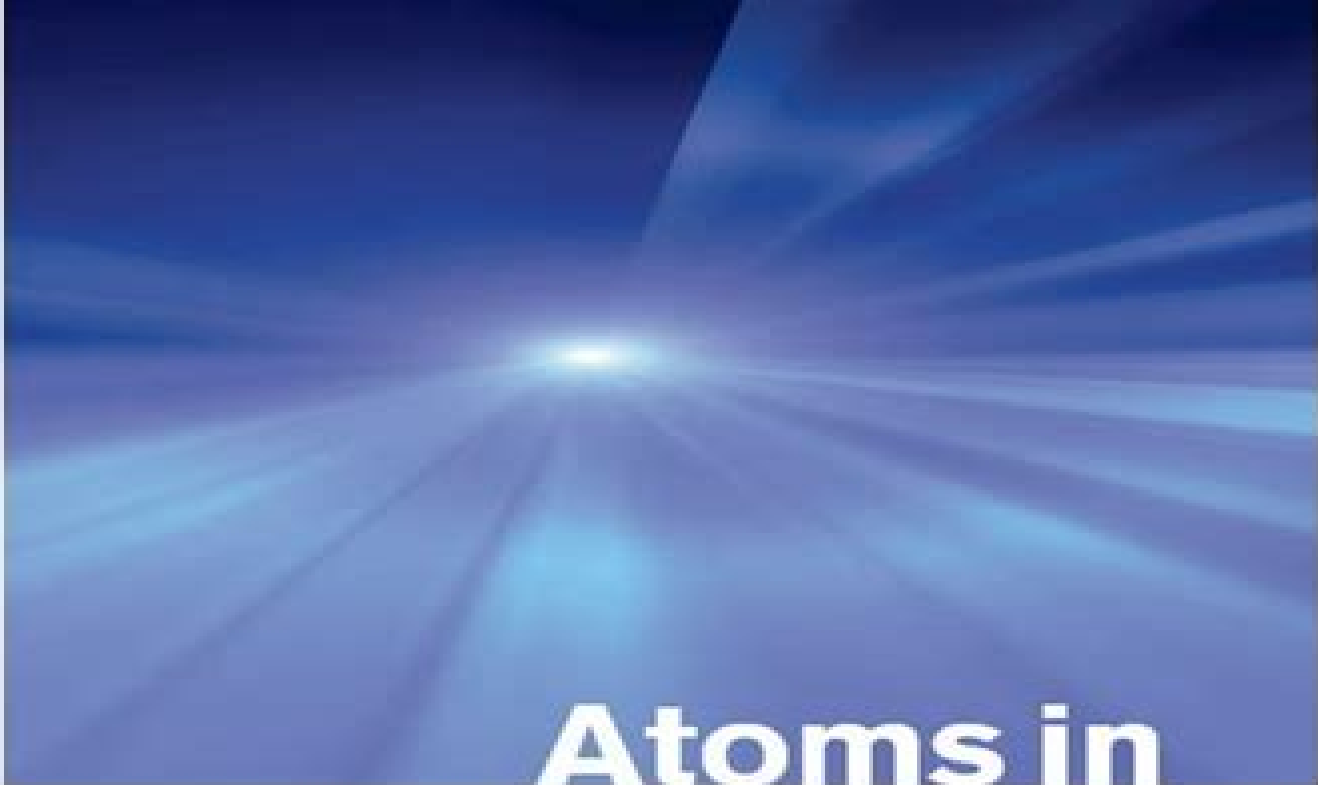




Atoms in Intense Laser Fields

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R. M. Potvliege**

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Atoms In Intense Laser Fields

**C. J. Joachain, N. J. Kylstra, R. M.
Potvliege**



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

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

Interaction of Atoms with Intense Laser Fields and

Ultrashort Pulses Carla Figueira de Morisson Faria, 1999 *Super-Intense Laser—Atom Physics* A. L'Huillier, Bernard
Piriaux, 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 **Theory of**
High-order Processes in Atoms in Intense Laser Fields Kenneth Kulander, 1990 **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 order 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 we 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
ionization 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 *High-order Radiative Processes of*
Atoms in Intense Laser Fields Wei-Chih Liu, 1996

The book delves into Atoms In Intense Laser Fields. Atoms In Intense Laser Fields is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Atoms In Intense Laser Fields, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 5: Conclusion
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