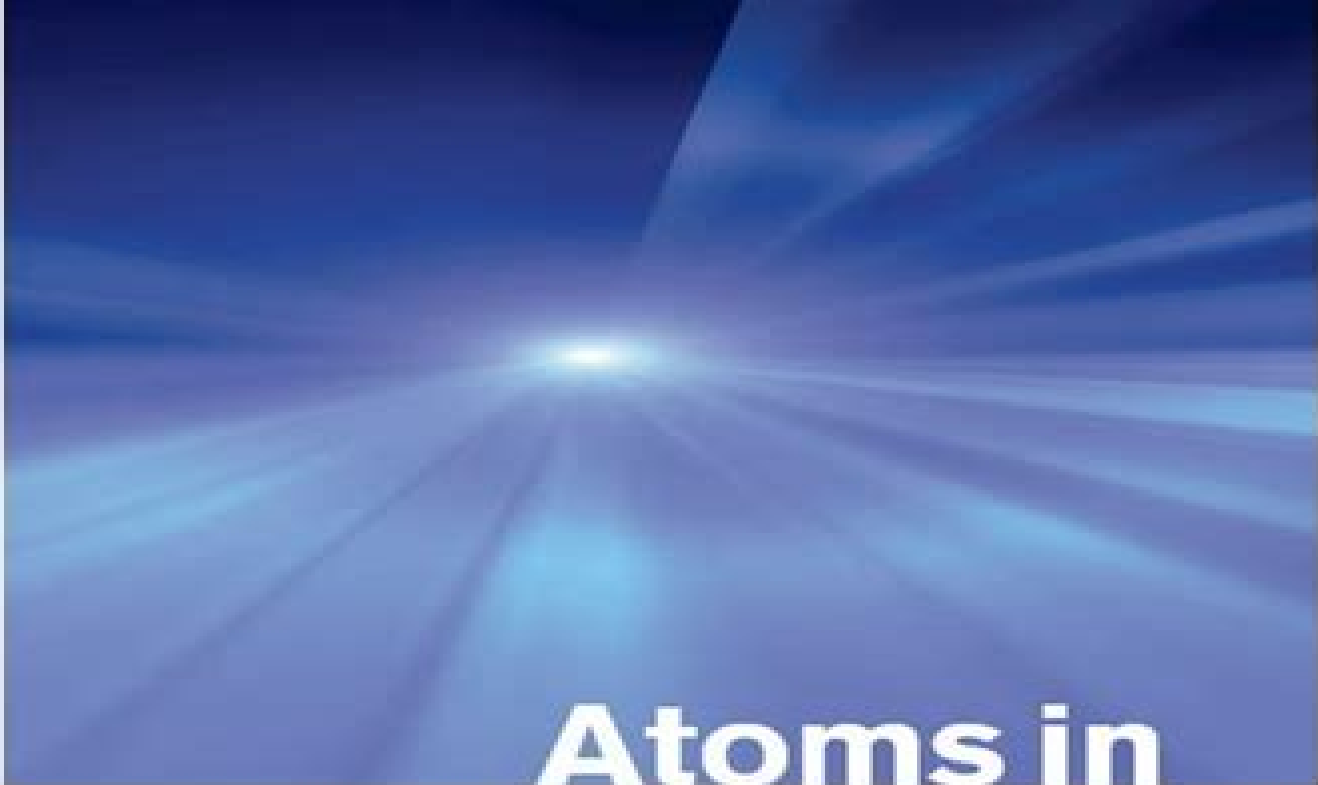




Atoms in Intense Laser Fields

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

CAMBRIDGE

Atoms In Intense Laser Fields

H.G. Muller, M.V. Fedorov



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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 $20\text{--}200\text{ W cm}^{-2}$ intensities up to 10 W cm^{-2} 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 Piraux, Kazimierz Rzaewski, 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

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Atoms In Intense Laser Fields**

In a global inundated with displays and the cacophony of immediate transmission, the profound energy and emotional resonance of verbal beauty often disappear into obscurity, eclipsed by the regular barrage of noise and distractions. Yet, set within the musical pages of **Atoms In Intense Laser Fields**, a captivating work of literary brilliance that pulses with raw emotions, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this interesting opus manuals visitors on an emotional odyssey, softly exposing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is key subjects, dissect its fascinating writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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Table of Contents Atoms In Intense Laser Fields

1. Understanding the eBook Atoms In Intense Laser Fields
 - The Rise of Digital Reading Atoms In Intense Laser Fields
 - Advantages of eBooks Over Traditional Books
2. Identifying Atoms In Intense Laser Fields
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Atoms In Intense Laser Fields
 - User-Friendly Interface
4. Exploring eBook Recommendations from Atoms In Intense Laser Fields
 - Personalized Recommendations

- Atoms In Intense Laser Fields User Reviews and Ratings
- Atoms In Intense Laser Fields and Bestseller Lists
- 5. Accessing Atoms In Intense Laser Fields Free and Paid eBooks
 - Atoms In Intense Laser Fields Public Domain eBooks
 - Atoms In Intense Laser Fields eBook Subscription Services
 - Atoms In Intense Laser Fields Budget-Friendly Options
- 6. Navigating Atoms In Intense Laser Fields eBook Formats
 - ePub, PDF, MOBI, and More
 - Atoms In Intense Laser Fields Compatibility with Devices
 - Atoms In Intense Laser Fields Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Atoms In Intense Laser Fields
 - Highlighting and Note-Taking Atoms In Intense Laser Fields
 - Interactive Elements Atoms In Intense Laser Fields
- 8. Staying Engaged with Atoms In Intense Laser Fields
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Atoms In Intense Laser Fields
- 9. Balancing eBooks and Physical Books Atoms In Intense Laser Fields
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Atoms In Intense Laser Fields
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Atoms In Intense Laser Fields
 - Setting Reading Goals Atoms In Intense Laser Fields
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Atoms In Intense Laser Fields
 - Fact-Checking eBook Content of Atoms In Intense Laser Fields

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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