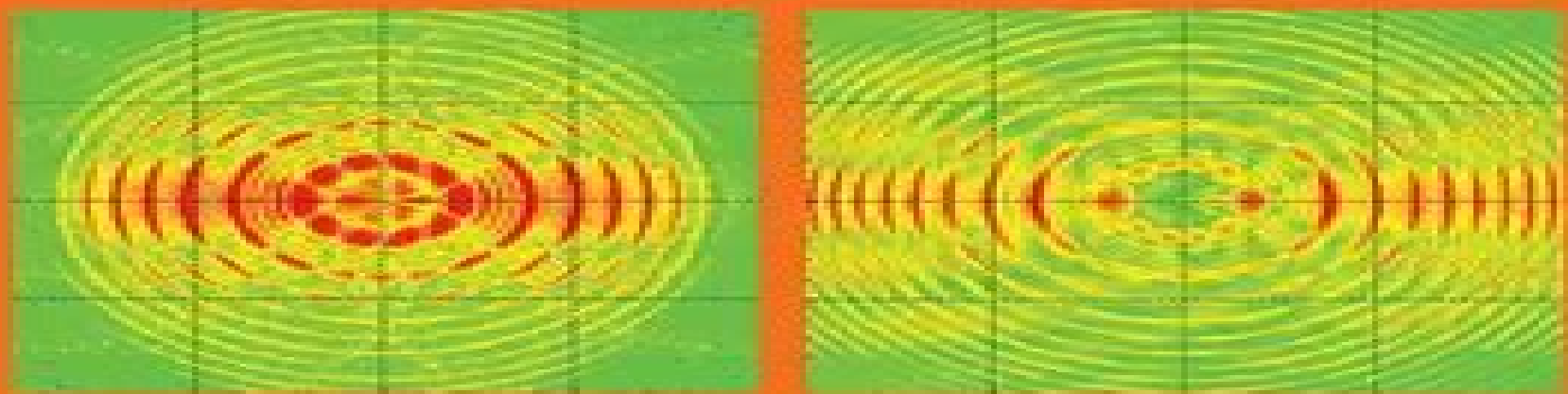


# Advances of Atoms and Molecules in Strong Laser Fields



Yunquan Liu

# Advances Atoms Molecules Strong Fields

**Ensheng Dong**



## **Advances Atoms Molecules Strong Fields:**

**Advances Of Atoms And Molecules In Strong Laser Fields** Yunquan Liu, 2015-09-29 This volume presents the latest advancements and future perspectives of atomic molecular and optical AMO physics and its vital role in modern sciences and technologies The chapters are devoted to a wide range of quantum systems with an emphasis on the understanding of ionization high harmonic generation molecular orbital imaging and coherent control phenomena originating from light matter interactions The book overviews current research landscape and highlight major scientific trends in AMO physics interfacing with interdisciplinary sciences It may be particularly interesting for young researchers working on establishing their scientific interests and goals

**Advances in Ultrafast Optics** Fei He, Derong Li, Wei Quan, Shufeng Wang, Zhiyi Wei, Heping Zeng, 2018-09-10 No detailed description available for Advances in Ultrafast Optics

Advances in Atomic, Molecular, and Optical Physics Benjamin Bederson, Herbert Walther, 1995-11-14 Praise for Previous Volumes This volume maintains the authoritative standards of the series The editors and publishers are to be congratulated M S CHILD in PHYSICS BULLETIN Maintains the high standards of earlier volumes in the series All the series are written by experts in the field and their summaries are most timely Strongly recommended G HERZBERG in AMERICAN SCIENTIST

Progress in Ultrafast Intense Laser Science I See Leang Chin, Pierre Agostini, Gaetano Ferrante, 2006-10-03 This is the first of a series of books on Ultrafast Intense Laser Science a newly emerging interdisciplinary research field that spans atomic and molecular physics molecular science and optical science It covers intense VUV laser cluster interaction resonance and chaos assisted tunneling and the effects of the carrier envelope phase on high order harmonic generation

Advances in Atomic, Molecular, and Optical Physics, 2012-10-18 Advances in Atomic Molecular and Optical Physics publishes reviews of recent developments in a field which is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts and contain both relevant review material and detailed descriptions of important recent developments International experts Comprehensive articles New developments

**Progress in Ultrafast Intense Laser Science III** See Leang Chin, Pierre Agostini, Gaetano Ferrante, 2008-01-23 The PUILS series presents Progress in Ultrafast Intense Laser Science This third volume in the series covers a diverse range of disciplines focusing on such topics as strong field ionization of atoms ionization and fragmentation of molecules and clusters generation of high order harmonics and attosecond pulses filamentation and laser plasma interaction and the development of ultrashort and ultrahigh intensity light sources

Advances in Atomic, Molecular, and Optical Physics Paul R. Berman, Ennio Arimondo, Chun C. Lin, 2011-10-03 Advances in Atomic Molecular and Optical Physics publishes reviews of recent developments in a field which is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics

and laser physics Articles are written by distinguished experts and contain both relevant review material and detailed descriptions of important recent developments International experts Comprehensive articles New developments **Pushing the Frontiers of Atomic Physics** Robin C[un]t[er], Phillip L. Gould, Michael Rozman, 2009 This unique book highlights the state of the art of the booming field of atomic physics in the early 21st century It contains the majority of the invited papers from an ongoing series of conferences held every two years devoted to forefront research and fundamental studies in basic atomic physics broadly defined This conference held at the University of Connecticut in July 2008 is part of a series of conferences which began in 1968 and had its historical origins in the molecular beam conferences of the I I Rabi group It provides an archival and up to date summary of current research on atoms and simple molecules as well as their interactions with each other and with external fields including degenerate Bose and Fermi quantum gases and interactions involving ultrafast lasers strong field control of X ray processes and nanoscale and mesoscopic quantum systems The work of three recent Nobel Laureates in atomic physics is included beginning with a lecture by Eric Cornell on When Is a Quantum Gas a Quantum Liquid There are also papers by Laureates Steven Chu and Roy Glauber The volume also contains the IUPAP Young Scientist Prize lecture by Cheng Chin on Exploring Universality of Few Body Physics Based on Ultracold Atoms Near Feshbach Resonances **Advance Elements of Laser Circuits and Systems** Ofer Aluf, 2021-03-09 This book on Advance Elements of Laser circuits and systems Nonlinearity applications in engineering addresses two separate engineering and scientific areas and presents advanced analysis methods for Laser circuits and systems that cover a broad range of engineering and scientific applications The book analyzed Laser circuits and systems as linear and nonlinear dynamical systems and there limit cycles bifurcation and limit cycle stability by using nonlinear dynamic theory Further it discussed a broad range of bifurcations related to Laser systems and circuits starting from laser system differential equations and their bifurcations delay differential equations DDEs are a function of time delays delay dependent parameters followed by phase plane analysis limit cycles and their bifurcations chaos iterated maps period doubling It combines graphical information with analytical analysis to effectively study the local stability of Laser systems models involving delay dependent parameters Specifically the stability of a given steady state is determined by the graphs of some functions of which can be expressed explicitly The Laser circuits and systems are Laser diode circuits MRI system Laser diode circuitry Electron photon exchanges into VCSEL Ti Sapphire laser systems Ion channel and long wavelength lasers Solid state lasers Solid state laser controlled by semiconductor devices microchip solid state laser Q switched diode pumped solid state laser Nd YAG Mid Infrared and Q switched microchip lasers Gas laser systems copper vapor laser CVL circuitry Dual wavelength laser systems Dual wavelength operation of a Ti sapphire laser Diode pumped Q switched Nd YVO4 yellow laser Asymmetric dual quantum well lasers Tm3 doped silica fibre lasers Terahertz dual wavelength quantum cascade laser The Book address also the additional areas Laser X guiding system Plasma diagnostics Laser Beam shaping Jitter and crosstalk Plasma mirror systems and High

power Laser Target diagnostic system optical elements The book is unique in its emphasis on practical and innovative engineering and scientific applications All conceptual Laser circuits are innovative and can be broadly implemented in many engineering applications The dynamics of Laser circuits and systems provides several ways to use them in a variety of applications covering wide areas This book is aimed at electrical and electronics engineers students and researchers in physics as well It is also aimed for research institutes in lasers and plasma physics and gives good comprehensive in laser and plasma systems In each chapter the concept is developed from basic assumptions up to the final engineering and scientific outcomes The scientific background is explained at basic and advance levels and closely integrated with mathematical theory Many examples are presented in this book and it is also ideal for intermediate level courses at graduate level studies It is also ideal for engineer who has not had formal instruction in nonlinear dynamics but who now desires to fill the gap between innovative Laser circuits systems and advance mathematical analysis methods

*Advances in Atomic Molecular Collisions* Lokesh C. Tribedi, 2024-12-01 Atomic and molecular collision physics has undergone extraordinary transformations in last few decades which is driven by a convergence of breakthroughs in the sophisticated instruments theoretical advancements and computational capabilities Rapid advancement and availability of a number of sophisticated tools such as accelerators ion sources lasers synchrotrons free electron lasers etc have led this remarkable transformation On the other hand there has been a phenomenal growth in the theoretical front which has not only complemented the experimental data but also have predicted new mechanisms guiding the experimentalists to venture into the new and challenging experiments This comprehensive collection of articles aims to capture the essence of these exciting developments offering a comprehensive overview of the latest insights into the field The articles are prepared such that the newcomers in the field will get a glimpse in the field while presenting state of the art reviews for the scientists working in the field The thirty authors from different countries who have prepared the thirteen articles are experts in their respective fields of research The articles deal with relatively new discoveries in atomic and molecular physics as well as the latest development in the field The experimental techniques and the related scientific achievements using different electron spectrometers EUV VUV spectrometers high resolution momentum imaging and COLTRIMS have been dealt in details The post collision interaction in ion atom collisions the atomic and molecular ICD spatial coherence in molecular double slit scattering electron capture and Shannon entropy collisions involving atomic and molecular dimers ultrafast processes in clusters and fullerene C60 and processes like ionization and electron emission are delved in various chapters It also explores the theoretical modeling for the structure and collisions involving water molecule and water clusters H2O n important for radio biological applications In addition theoretical techniques such as the CDW EIS CTMC TDDFT and TDLDA eikonal impulse approximation perturbed relativistic coupled cluster theory are introduced in different chapters A few dynamical scenarios using fast and ultrafast laser pulses are explored theoretically starting from femtosecond to the attosecond domain

Bridging the gap between the spectroscopy and collisional aspects is one unique feature of this book. A suitable balance between theory based seven chapters and experiment based six chapters articles is important characteristics of this volume. Each chapter surveys not only the current state of knowledge but also indicating the pathways forward and indicating the practical applications of atomic collisions in diverse scientific disciplines such as science of plasmas astrochemistry astrophysics radiobiology radiation damage laser and accelerator technology etc. It is expected that the volume serves as a valuable resource for researchers students and enthusiasts alike pushing the boundaries of our understanding of atomic physics and its applications.

**Advances in Multi-photon Processes and Spectroscopy** S. H. Lin, Y. Fujimura, A. A. Villaeys, 2010. In view of the rapid growth in both experimental and theoretical studies of multi photon processes and multi photon spectroscopy of atoms ions and molecules in chemistry physics biology and materials science it is timely to publish an advanced series that contains review papers readable not only by active researchers in these areas but also by those who are non experts but who wish to enter the field. This present volume attempts to serve this purpose. Each chapter is written in a self contained manner by experts in their own area of expertise so that general readers can grasp the knowledge in that area without too much preparation.

*Atomic, Molecular, and Optical Physics* National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Board on Physics and Astronomy, Physics Survey Committee, Panel on Atomic, Molecular, and Optical Physics, 1986-02-01. The goals of atomic molecular and optical physics AMO physics are to elucidate the fundamental laws of physics to understand the structure of matter and how matter evolves at the atomic and molecular levels to understand light in all its manifestations and to create new techniques and devices. AMO physics provides theoretical and experimental methods and essential data to neighboring areas of science such as chemistry astrophysics condensed matter physics plasma physics surface science biology and medicine. It contributes to the national security system and to the nation's programs in fusion directed energy and materials research. Lasers and advanced technologies such as optical processing and laser isotope separation have been made possible by discoveries in AMO physics and the research underlies new industries such as fiber optics communications and laser assisted manufacturing. These developments are expected to help the nation to maintain its industrial competitiveness and its military strength in the years to come. This report describes the field characterizes recent advances and identifies current frontiers of research.

*Current Developments in Atomic, Molecular, and Chemical Physics with Applications* Man Mohan, 2012-12-06. Proceedings of an International Conference on Current Developments in Atomic Molecular and Chemical Physics with Applications held March 20-22 2002 in Delhi India. The 38 chapters cover a broad range of research activities categorized into four sub topics namely Processes in Laser Fields Chemical Physics Collision Processes Atomic Structure and Applications.

*Developments in Surface Contamination and Cleaning* Rajiv Kohli, Kashmiri L. Mittal, 2008-01-10. Surface contamination is of cardinal importance in a host of technologies and industries ranging from microelectronics to optics to

automotive to biomedical Thus the need to understand the causes of surface contamination and their removal is very patent Generally speaking there are two broad categories of surface contaminants film type and particulates In the world of shrinking dimensions such as the ever decreasing size of microelectronic devices there is an intensified need to understand the behavior of nanoscale particles and to devise ways to remove them to an acceptable level Particles which were functionally innocuous a few years ago are killer defects today with serious implications for yield and reliability of the components This book addresses the sources detection characterization and removal of both kinds of contaminants as well as ways to prevent surfaces from being contaminated A number of techniques to monitor the level of cleanliness are also discussed Special emphasis is placed on the behaviour of nanoscale particles The book is amply referenced and profusely illustrated Excellent reference for a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical A single source document addressing everything from the sources of contamination to their removal and prevention Amply referenced and profusely illustrated

**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

**Springer Handbook of Atomic, Molecular, and Optical Physics** Gordon W. F. Drake,2023-02-09 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 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references 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     **Advances in Atomic, Molecular, and Optical Physics** Susanne Yelin,Louis F.

Dimauro,Hélène Perrin,2021-07-09 Advances in Atomic Molecular and Optical Physics Volume 70 provides a comprehensive compilation of recent developments in a field that is in a state of rapid growth as new experimental and theoretical techniques are used on many problems both old and new Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics with timely articles written by distinguished experts Presents the work of international experts in the field Contains comprehensive articles that compile recent developments in a field that is experiencing rapid growth with new experimental and theoretical techniques emerging Ideal for users interested in optics excitons plasmas and thermodynamics Covers atmospheric science astrophysics and surface and laser physics amongst other topics     **Research Briefing on Selected Opportunities in Atomic, Molecular, and Optical Sciences** ,1991

**Progress in Ultrafast Intense Laser Science** Andreas Becker,Ruxin Li,See Leang Chin,2008-12-16 It is a great pleasure that we are now publishing the fourth volume of the series on PUILS through which we have been introducing the progress in ultrafast intense laser science the frontiers of which are rapidly expanding thanks to the progress in ultrashort and high power laser technologies The interdisciplinary nature of this research eld is attracting researchers with di erent expertise and backgrounds As in the previousvolumeson PUILS each chapter in the presentvolume which is in the range of 15 25 pages begins with an introduction in which a clear and concise account of the signi cance of the topic is given followed by a description of the authors most recent research results All the chapters are peer reviewed The articles of this fourth volume cover a diverse range of the interdisciplinary research eld and the topics may be grouped into four categories strong eld ionization of atoms Chaps 1 2 excitation ioni tion and fragmentation of molecules Chaps 3 5 nonlinear intense optical phenomena and attosecond pulses Chaps 6 8 and laser solid interactions and photoemissions Chaps 9 11     **Giant**

**Resonances in Atoms, Molecules, and Solids** J.P. Connerade,J.M. Esteve,R.C. Karnatak,2013-12-20 Often a new area of science grows at the confines between recognised subject divisions drawing upon techniques and intellectual perspectives from a diversity of fields Such growth can remain unnoticed at first until a characteristic fami ly of effects described by appropriate key words has developed at which point a distinct subject is born Such is very much the case with atomic giant resonances For a start their name itself was borrowed from the field of nuclear collective resonances The energy range in which they occur at the juncture of the extreme UV and the soft X rays remains to this day a meeting point of two different experimental techniques the grating and the crystal spectrometer The impetus of synchrotron spectroscopy also played a large part in developing novel methods described by many acronyms which are used to study giant resonances today Finally although we have described them as atomic to differentiate them from their counterparts in Nuclear Physics their occurrence



on atomic sites does not inhibit their existence in molecules and solids. In fact, giant resonances provide a new unifying theme cutting across some of the traditional scientific boundaries. After much separate development, the spectroscopies of the atom in various environments can meet afresh around this theme of common interest. Centrifugal barrier effects and giant resonances proper emerged almost simultaneously in the late 1960s from two widely separated areas of physics, namely the study of free atoms and of condensed matter.

## **Advances Atoms Molecules Strong Fields** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Advances Atoms Molecules Strong Fields**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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