

THE THEORY OF
MULTIPLICATIVE
PARTIAL DIFFERENTIAL
EQUATIONS

BY
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Theory Of Multiphoton Processes

James Patrick Colgan



Theory Of Multiphoton Processes:

Theory of Multiphoton Processes Farhad H.M. Faisal, 2013-12-11 My aim in this book has been to give an account of the theoretical methods of analysis of multiphoton processes in atomic physics In this account I have emphasized systematic methods as opposed to ad hoc approaches Both perturbative and nonperturbative methods are presented with illustrative results of concrete applications The perturbation theory is the primary tool of analysis of nonresonant multiphoton processes It is developed here in conjunction with a diagrammatic language and is also renormalized to free it from the unwanted divergences which accompany the ordinary treatment when higher order corrections are considered The nonperturbative methods i e methods other than that of power series expansion in the field strength become particularly important for consistent treatments of problems involving for example intermediate resonances high field strengths and finite pulse duration The specifically nonperturbative methods for multiphoton transitions are presented in Chapters 6-11 The methods of resolvent equations and of effective Hamiltonians are developed for both the stationary and the time dependent fields The density matrix method is presented in conjunction with the problems of relaxation and of fluctuating fields The Floquet theory is presented both in the energy domain and in the time domain Also treated are the methods of continued fractions recursive iterative equations and chain Hamiltonians

Theory of Multiphoton Processes for Atoms and Ions Bo Gao, 1989 [Theory of Multiphoton Processes for Atoms and Ions in the Presence of a Static Electric Field](#) Min-Qi Bao, 1995

[Quantum Systems in Physics, Chemistry and Biology - Theory, Interpretation and Results](#), 2019-01-05 Quantum Systems in Physics Chemistry and Biology Theory Interpretation and Results Volume 78 the latest release in the Advances in Quantum Chemistry series presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology It features detailed reviews written by leading international researchers Presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Features detailed reviews written by leading international researchers

Multiphoton Processes P. Lambropoulos, S.J. Smith, 2012-12-06 The chapters of this volume represent the invited papers delivered at the 3rd International Conference on Multiphoton Processes ICOMP III held in Iraklion Crete Greece September 5-11 1984 The invited papers at a conference like ICOMP cannot possibly cover the whole field which has grown to immense proportions in recent years overlapping with such diverse areas as atomic and molecular spectroscopy plasma physics nonlinear optics quantum optics etc We believe these contributions represent that part of the research activity which has been attracting the most interest in the past year or so as well as reviews of some of the more established topics Even within this scope and given the confines imposed by the finite duration of a conference important and timely topics are inevitably left out But then there will be ICOMP IV The collection of articles in this volume combined with extensive references to related work given by the authors should provide an introduction to the major

problems of the field and its state of the art The chapters have been arranged according to thematic proximity beginning with atoms and continuing on with molecules and surfaces This classification however would not cover all the subject matter even within the limited scope of the conference and of this volume

Theory of Atomic Multiphoton Processes Robert Ian Jackson, Queen's University, 1982

Multiphoton Processes in Atoms N.B. Delone, V.P. Krainov, 2012-12-06 Multiphoton Processes in Atoms in intense laser light fields is gaining ground as a spectroscopic diagnostic tool The authors present descriptions of processes occurring in atoms under the action of strong electromagnetic radiation in particular the shift broadening and mixing of atomic states The topics include tunneling ionization above threshold ionization ionization of multiply charged ions resonance enhanced ionization super intense radiation fields and properties of Rydberg states strongly perturbed by laser radiation

Advances in Atomic and Molecular Physics, 1977-01-13 *Advances in Atomic and Molecular Physics*

The Theory of Coherent Atomic Excitation, Multilevel Atoms and Incoherence Bruce W. Shore, 1990 This book examines the nature of the coherent excitation produced in atoms by lasers as well as the details of the transient variation of excited state populations with time and how these depend upon such controllable parameters as laser frequency and intensity It emphasizes the physical and mathematical theory that underlies contemporary description of this excitation It is concerned with temporal behaviour rather than with the characteristic energy levels of the stationary status of atoms In Volume 2 Part IV a variety of multi state extensions of the simple two state atom beginning with three state models and continuing to finite and infinite chains of excitation are examined Part V presents and applies the theory of angular momentum to coherent excitation The final part examines a number of extensions of coherent excitation concluding with the theory of random processes and applications to the fluctuations that inevitably accompany excitation and act to destroy coherence A set of appendices summarize background material

Multiphoton Processes in Isolated Atoms and Molecules Aasmund Sveinung Sudbo, 1979

Nonperturbative Theory of Single/multiphoton Processes in Atoms and Molecules Induced by Intense Laser Fields Albert Man-Fai Lau, 1975

Multiphoton Processes Peter Lambropoulos, 1978

Multiphoton Processes in Atoms Nikolai B. Delone, Vladimir P. Krainov, 2012-12-06 Multiphoton ionization of atoms in intense laser light fields is gaining ground as a spectroscopic diagnostic tool In this volume Delone and Krainov present their and others theoretical description of the process occurring in atoms under conditions of multiphoton impacts in particular the shift broadening and mixing of electronic states which complicate the interpretation of spectra The topics of individual chapters include tunneling ionization above threshold ionization ionization of multiply charged ions resonance enhanced ionization super intense radiation fields and properties of Rydberg states in strong fields

Journal of the Optical Society of America, 1991

Atomic and Molecular Multiphoton Processes Using R-matrix Floquet Theory Claire McKenna, 2004

Physics Briefs, 1992

Inner- and Outer-shell Multiphoton Processes in Atoms Using R-matrix Floquet Theory Martin Madine, 2005

Soviet Physics--uspekhi, 1976

R-matrix-Floquet Theory of Molecular

Multiphoton Processes James Patrick Colgan, 1999

Theory of Quantum Optical Dynamics Jeng-yih Su, 1981

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