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Multiple-Photon Excitation and Dissociation of Polyatomic Molecules

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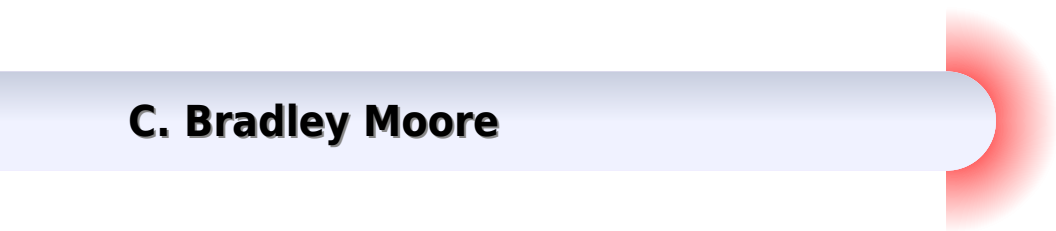
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Multiple Photon Excitation And Dissociation Of Polyatomic Molecules

C. Bradley Moore



Multiple Photon Excitation And Dissociation Of Polyatomic Molecules:

Multiple-Photon Excitation and Dissociation of Polyatomic Molecules Cyrus D. Cantrell, 2013-03-08 In the early 1970s researchers in Canada the Soviet Union and the United States discovered that powerful infrared laser pulses are capable of dissociating molecules such as SiF₄ and SF₆. This result which was so unexpected that for some time the phenomenon of multiple photon dissociation was not recognized in many circumstances in which we now know that it occurs was first publicized at a time when the possibility of using lasers for the separation of isotopes had attracted much attention in the scientific community. From the mid 1970s to the early 1980s hundreds of experimental papers were published describing the multiple photon absorption of CO₂ laser pulses in nearly every simple molecule with an absorption band in the 9-11 μ m region. Despite this impressive volume of experimental results and despite the efforts of numerous theorists there is no agreement among researchers in the field on many fundamental aspects of the absorption of infrared laser light by polyatomic molecules. This book is devoted to reviews of the experimental and theoretical research that provides the foundations for our current understanding of molecular multiple photon excitation and to reviews of research that is pertinent to the laser separation of isotopes. [Multiple-Photon Excitation and Dissociation of Polyatomic Molecules](#) Cyrus D

Cantrell, 1986-08-01 [Los Alamos Science](#), 1980 **Dynamics of the Excited State** K. P. Lawley, 2009-09-08 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline. Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics. **Laser Control of Atoms and**

Molecules V. S. Letokhov, 2007-02-15 This text treats laser light as a universal tool to control matter at the atomic and molecular level one of the most exciting applications of lasers. Lasers can heat matter cool atoms to ultra low temperatures where they show quantum collective behaviour and can act selectively on specific atoms and molecules for their detection and separation. **Laser Stimulated Scattering and Multiphoton Excitation** Guang S. He, 2022-02-25 Laser Stimulated Scattering and Multiphoton Excitation is the first book to comprehensively cover quantum electrodynamic theory of stimulated scattering and multiphoton excitation processes as well as various stimulated scattering effects. These include stimulated Raman scattering SRS and stimulated Brillouin scattering SBS as well as more recent advances in the field such as stimulated Kerr scattering SKS stimulated Rayleigh Bragg scattering SRBS and stimulated Mie scattering SMS. The book goes on to discuss multiphoton excitation based nonlinear optical effects photoelectric effects atomic and molecular ionization effects and molecular dissociation effects. Each chapter includes a description of the key concepts and mechanisms alongside the necessary theoretical formulations as well as engaging with the latest experimental research achievements and the scientific and technological applications. Laser Stimulated Scattering and Multiphoton Excitation is essential reading for

academics research scientists and students working or interested in the areas of nonlinear optics nonlinear photonics laser spectroscopy physical optics physical chemistry and optoelectronic engineering **Laser-Induced Chemical Processes**

Jeffrey I. Steinfeld, 2012-12-06 The possibility of initiating chemical reactions by high intensity laser excitation has captured the imagination of chemists and physicists as well as of industrial scientists and the scientifically informed public in general ever since the laser first became available Initially great hopes were held that laser induced chemistry would revolutionize synthetic chemistry making possible bond specific or mode specific reactions that were impossible to achieve under thermal equilibrium conditions Indeed some of the early work in this area typically employing high power continuous wave sources was interpreted in just this way With further investigation however a more conservative picture has emerged with the laser taking its place as one of a number of available methods for initiation of high energy chemical transformations Unlike a number of these methods such as flash photolysis shock tubes and electron beam radiolysis the laser is capable of a high degree of spatial and molecular localization of deposited energy which in turn is reflected in such applications as isotope enrichment or localized surface treatments The use of lasers to initiate chemical processes has led to the discovery of several distinctly new molecular phenomena foremost among which is that of multiple photon excitation and dissociation of polyatomic molecules This research area has received the greatest attention thus far and forms the focus of the present volume Advances In Multi-photon Processes And Spectroscopy, Vol 8 Ded Shankar Ray, 1993-11-19

In view of the rapid growth in both experimental and theoretical studies of multiphoton process and multiphoton spectroscopy of atoms ions and molecules in chemistry physics biology materials science etc it is desirable to publish an advanced series that contains review papers readable not only by active researchers in these areas but also by those who are not experts in the field but who intend to enter the field The present series attempts to serve this purpose Each review article is written in a self contained manner by the experts in the area so that the readers can grasp the knowledge in the area without too much preparation

Laser Beam Shaping Applications Fred M. Dickey, Todd E. Lizotte, Scott C. Holswade, David L. Shealy, 2018-10-03 The practice of shaping the irradiance profile of laser beams goes back more than three decades and the applications of beam shaping are as diverse as they are numerous However until Dickey and Holswade's groundbreaking and highly popular Laser Beam Shaping Theory and Techniques was published there was no single detailed treatment available on the underlying theory and basic techniques of beam shaping Building on the foundations of this previous work these esteemed editors have teamed with recognized expert David L. Shealy to produce the first in depth account of beam shaping applications and design Laser Beam Shaping Applications details the important features of beam shaping and exposes the subtleties of the theory and techniques that are best demonstrated through proven applications In chapters contributed by prominent active leaders in their respective specialties the book discusses applications in lithography laser printing optical data storage stable isotope separation adaptive mirrors and spatially dispersive lasers The contributors share major insights knowledge and experience

reveal the advantages of the technologies and include extensive references to the literature The book concludes with a summary of beam shaping theory and techniques as well as the history of the field Providing practical expertise Laser Beam Shaping Applications is an extremely helpful guide to improving current laser processes optimizing application specific technologies and advancing future development in the field

Laser Spectroscopy of Highly Vibrationally Excited Molecules Vladilen Stepanovich Letokhov, 2021-07-28 Laser spectroscopy has been perfected over the last fifteen years to become a precise tool for the investigation of highly vibrationally excited molecules Intense infrared laser radiation permits both the multiple photon resonant excitation and the dissociation of polyatomic molecules In this book the latest results of some of the foremost Soviet researchers are published for the first time in the West Laser Spectroscopy of Highly Vibrationally Excited Molecules contains a comprehensive study of both the experimental and theoretical aspects of the basic photophysical interactions that occur in these processes The book first focuses on the nonlinear interaction between the resonant vibrational mode and the intense infrared field and then examines the nonlinear interaction between the vibrational modes themselves due to anharmonicity These interrelated processes determine all the characteristics of polyatomic molecules in an infrared field The book also discusses related phenomena such as spectra broadening optical resonance photon echoes and dynamical chaos It includes examples of multiple photon resonant excitation such as the excitation of OsO_4 by CO_2 laser radiation which is detected by the visible luminescence that results This book will be of great interest to researchers and postgraduate students in infrared laser spectroscopy and the laser chemistry of molecules and applications of isotope separation

Theory and Application of Laser Chemical Vapor Deposition J. Mazumder, Aravinda Kar, 2013-06-29 In this monograph the authors offer a comprehensive examination of the latest research on Laser Chemical Vapor Deposition LCVD Chapters explore the physics of LCVD as well as the principles of a wide range of related phenomena including laser matter interactions heat transfer fluid flow chemical kinetics and adsorption With this reference researchers will discover how to apply these principles to developing theories about various types of LCVD processes gain greater insight into the basic mechanisms of LCVD and obtain the ability to design and control an LCVD system

Atomic and Molecular Processes with Short Intense Laser Pulses Andre D. Bandruk, 2012-12-06 This volume contains the lectures and communications presented at the NATO Advanced Research Workshop on Atomic and Molecular Processes with Short Intense Laser Pulses NATO ARW 848 86 The workshop was held at Bishop's University Lennoxville Quebec Canada July 19-24 1987 under the directorship of Prof A D Bandruk Universite de Sherbrooke A scientific committee made up of Dr P Corkum Laser Physics ational Research Council of Canada Dr P Hackett Laser Chemistry National Research Council of Canada Prof S C Wallace Dept of Chemistry and Physics University of Toronto and Prof F H M Faisal Fakultät für Physik Universität Bielefeld was called upon to invite and organize eminent lectures in the fields of i Coherence Phenomena in Atomic and Molecular Photoprocesses ii High Intensity Atomic and Molecular Phenomena iii Laser Chemistry The aim of

the workshop was to bring together chemists and physicists in order to discuss and analyze the progress made in the use of short intense laser pulses in understanding coherence phenomena and high intensity nonlinear radiative effects in atomic and molecular systems

Chemical and Biochemical Applications of Lasers V3 C. Bradley Moore, 2012-12-02 Chemical and Biochemical Applications of Lasers Volume III presents the fundamental principles and methods of selective photophysical and photochemical processes The book discusses isotopic separations and related research for each of eight classes of laser methods and their applications in chemistry biology and materials science The experimental results on multiphoton infrared processes and their theoretical interpretation are likewise thoroughly discussed and described Organic and inorganic chemists physical chemists and optical physicists will find the text a valuable reference material

Photons and Continuum States of Atoms and Molecules Carla Guidotti, Maria Allegrini, 2012-12-06 Since 1981 there has been an attempt in Europe to organize a series of small meetings workshops *tavole rotonde* with the aim of bringing together physicists and chemists interested in problems concerning atoms or molecules interacting with external photons where the continua are investigated The number of problems that fall into this category turns out to be vast However it is not possible to make a strict separation into problems concerning atomic and molecular collisions and those related to the usual spectroscopy This admixture of two disciplines discussions on the role of photons and on the interaction of external electromagnetic fields with the continuum provided a central motivation for these workshops The fourth of this series of meetings was held at Cortona between June 16 and 20 1986 It was attended by about 100 researchers in the field and there were 43 presentations all having equal time These talks form the subject matter of this volume The idea of publishing the proceedings of these meetings is not new It allows one to have small meetings in which the subject matter can be discussed at length in a lively atmosphere However after the meeting is over the speakers can collect their thoughts and produce articles in which the results of their interaction with the other participants can be incorporated

Physics Briefs, 1990

Coherent Nonlinear Optics M.S. Feld, V.S. Letokhov, 2012-12-06

Kinetics and Mechanism John W. Moore, Ralph G. Pearson, 1981-09-30 The third edition of a classic text originally by Frost and Pearson that describes the fundamental principles and established practices that apply to the study and the rates and mechanisms of homogeneous chemical reactions in the gas phase and in solution Incorporates new advances made during the past 20 years in the study of individual molecular collisions by molecular beam laser applications to experimental kinetics theoretical treatments of reaction rates and our understanding of the principles that govern rates of reaction in solution Presents numerous examples of the deduction of mechanism from experiment including intimate details such as stereochemistry and the dependence of reaction pathway on the exact energy states of reacting particles

Theoretical Aspects of Laser Radiation and Its Interaction with Atomic and Molecular Systems, 1977

Abstracts from the International Conference on Multiphoton Processes, 1977

Laser Spectroscopy and its Applications Richard W. Solarz, Jeffrey A.

Paisner, 2017-11-22 Bringing together scattered literature from a range of sources *Laser Spectroscopy and Its Applications* clearly elucidates the tools and concepts of this dynamic area and provides extensive bibliographies for further study. Distinguished experts in their respective fields discuss resonance photoionization laser absorption laser induced breakdown photodissociation Raman scattering remote sensing and laser induced fluorescence. The book also incorporates an overview of the semiclassical theory of atomic and molecular spectra. Combining background at an intermediate level with an in depth discussion of specific techniques *Laser Spectroscopy and Its Applications* is essential reading for laser and optical scientists and engineers analytical chemists health physicists researchers in optical chemical pharmaceutical and metallurgical industries. It will also prove useful for upper level undergraduate and graduate students of laser spectroscopy and its applications and in house seminars and short courses offered by firms and professional societies.

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