

Principles of the Quantum Control of Molecular Processes

MOSHE SHAPIRO

Principles Of The Quantum Control Of Molecular Processes

Trevor Hall, Sergey V. Gaponenko

Principles Of The Quantum Control Of Molecular Processes:

Quantum Control of Molecular Processes Moshe Shapiro, Paul Brumer, 2012-09-19 Written by two of the world's leading researchers in the field this is a systematic introduction to the fundamental principles of coherent control and to the underlying physics and chemistry This fully updated second edition is enhanced by 80% and covers the latest techniques and applications including nanostructures attosecond processes optical control of chirality and weak and strong field quantum control Developments and challenges in decoherence sensitive condensed phase control as well as in bimolecular control are clearly described Indispensable for atomic molecular and chemical physicists physical chemists materials scientists and Principles of the Quantum Control of Molecular Processes Moshe Shapiro, Paul Brumer, 2003 Principles nanotechnologists and Applications of Quantum Contro Over the past fifteen years significant developments have been made in utilizing quantum attributes of light and matter to assume unprecedented control over the dynamics of atomic and molecular systems This growth reflects a confluence of factors including the maturation of quantum mechanics as a tool for chemistry and physics the development of new laser devices increasing our ability to manipulate light and the recognition that coherent laser light can be used to imprint information on atoms and molecules for practical purposes Written by two of the world s leading researchers in the field Principles of the Quantum Control of Molecular Processes offers a systematic introduction to the fundamental principles of coherent control and to the physics and chemistry necessary to master it Designed as both a resource for self study and as a graduate textbook this survey of the subject provides a step by step discussion of light matter interactions along with coverage of such essential topics as Molecular dynamics and control LI The dynamics of photodissociation LI Bimolecular collision processes LI The control of chirality and asymmetric synthesis LI Application of control using moderate and strong fields LI Tuning the system and laser parameters to achieve optimal control LI Decoherence and methods for countering it P Both authoritative and comprehensive this first in depth treatment of coherent control is destined to become the standard reference in an increasingly influential field PAUL W BRUMER PhD is University Professor Theoretical Chemical Physics and holds the Roel Buck Chair in Chemical Physics at the University of Toronto He received his BSc from Brooklyn College and his PhD from Harvard University MOSHE SHAPIRO PhD is the Jacques Mimran Professor of Chemical Physics at the Weizmann Institute of Science Rehovot Israel and a Professor of Chemistry and Physics at the University of British Columbia He received his BSc MSc and PhD from the Hebrew University of Jerusalem The authors are among the cofounders of the field of coherent control They have published extensively on this and related subjects in chemical physics and have received numerous awards and worldwide recognition for their research contributions

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Gaponenko, 2009-11-24 Extreme Photonics Applications arises from the 2008 NATO Advanced Study Institute in Laser Control Monitoring in New Materials Biomedicine Environment Security and Defense Leading experts in the manipulation of light offered by recent advances in laser physics and nanoscience were invited to give lectures in their fields of expertise and participate in discussions on current research applications and new directions. The sum of their contributions to this book is a primer for the state of scientific knowledge and the issues within the subject of photonics taken to the extreme frontiers molding light at the ultra finest scales which represents the beginning of the end to limitations in optical science for the benefit of 21st Century technological societies Laser light is an exquisite tool for physical and chemical research Physicists have recently developed pulsed lasers with such short durations that one laser shot takes the time of one molecular vibration or one electron rotation in an atom which makes it possible to observe their internal electronic structure thereby enabling the study of physical processes and new chemical reactions In parallel advances in micro and nano structured photonic materials allow the precise manipulation of light on its natural scale of a wavelength Photonic crystals plasmons and related metamaterials composed of subwavelength nanostructures permit the manipulation of their dispersive properties and have allowed the experimental confirmation of bizarre new effects such as slow light and negative refraction These advances open a vista on a new era in which it is possible to build lasers and engineer materials to control and use photons as precisely as it is already possible to do with electrons http www photonics uottawa ca nato asi 2008 Laser Control Of Chemical Dynamics: With Emphasis On Nonadiabatic Transition Hiroki Nakamura, 2024-09-10 Laser control of chemical dynamics is one of the active research fields in molecular science brought about by significant advances in laser technology and further development of quantum control theory This monograph features the author's outstanding contributions to the field The first four chapters provide an excellent review of the fundamental subjects that are crucial to understanding laser molecule interactions with the highlight being his Zhu Nakamura theory of nonadiabatic transition This is an important basic theory for describing processes relevant to laser control and has been used by scientists around the world because of its simplicity and accuracy The remaining chapters propose theoretical possibilities of controlling various chemical dynamic processes Cybernetical Physics A. Fradkov, 2007-06-30 Cybernetical physics borrows based on theories discussed earlier in the book methods from both theoretical physics and control engineering It deals with the control of complex systems is one of the most important aspects in dealing with systems exhibiting nonlinear behavior or similar features that defy traditional control techniques This book fully details this new discipline **Geometric Structures of Phase Space in Multi-Dimensional** Chaos Mikito Toda, Tamiki Komatsuzaki, Tetsuro Konishi, R. Stephen Berry, Stuart A. Rice, 2005-01-28 This series provides the chemical physics field with a forum for critical authoritative evaluations of advances in every area of the discipline Volume 130 in the series continues to report recent advances with significant up to date chapters by internationally recognized researchers Molecular Reaction Dynamics Raphael D. Levine, 2009-06-04 Molecular reaction dynamics is the study of

chemical and physical transformations of matter at the molecular level The understanding of how chemical reactions occur and how to control them is fundamental to chemists and interdisciplinary areas such as materials and nanoscience rational drug design environmental and astrochemistry This book provides a thorough foundation to this area The first half is introductory detailing experimental techniques for initiating and probing reaction dynamics and the essential insights that have been gained. The second part explores key areas including photoselective chemistry stereochemistry chemical reactions in real time and chemical reaction dynamics in solutions and interfaces Typical of the new challenges are molecular machines enzyme action and molecular control With problem sets included this book is suitable for advanced undergraduate and graduate students as well as being supplementary to chemical kinetics physical chemistry biophysics and materials science courses and as a primer for practising scientists **Attosecond and XUV Physics** Thomas Schultz, Marc Vrakking, 2013-11-13 This book provides fundamental knowledge in the fields of attosecond science and free electron lasers based on the insight that the further development of both disciplines can greatly benefit from mutual exposure and interaction between the two communities With respect to the interaction of high intensity lasers with matter it covers ultrafast lasers high harmonic generation attosecond pulse generation and characterization Other chapters review strong field physics free electron lasers and experimental instrumentation Written in an easy accessible style the book is aimed at graduate and postgraduate students so as to support the scientific training of early stage researchers in this emerging field Special emphasis is placed on the practical approach of building experiments allowing young researchers to develop a wide range of scientific skills in order to accelerate the development of spectroscopic techniques and their implementation in scientific experiments The editors are managers of a research network devoted to the education of young scientists and this book idea is based on a summer school organized by the ATTOFEL network Conical Intersections Wolfgang Domcke, David Yarkony, 2011 The concept of adiabatic electronic potential energy surfaces defined by the Born Oppenheimer approximation is fundamental to our thinking about chemical processes Recent computational as well as experimental studies have produced ample evidence that the so called conical intersections of electronic energy surfaces predicted by von Neumann and Wigner in 1929 are the rule rather than the exception in polyatomic molecules It is nowadays increasingly recognized that conical intersections play a key mechanistic role in chemical reaction dynamics This volume provides an up to date overview of the multi faceted research on the role of conical intersections in photochemistry and photobiology including basic theoretical concepts novel computational strategies as well as innovative experiments The contents and discussions will be of value to advanced students and researchers in photochemistry molecular spectroscopy and related Physics and Engineering of New Materials Do Tran Cat, Annemarie Pucci, Klaus Rainer Wandelt, 2009-01-01 This areas book presents the majority of the contributions to the Tenth German Vietnamese Seminar on Physics and Engineering GVS10 that took place in the Gustav Stresemann Institut GSI in Bonn from June 6 to June 9 2007 In the focus of these studies are the

preparation and basic properties of new material systems related investigation methods and practical applications Accordingly the sections in this book are entitled electrons transport and confinement low dimensional systems magnetism oxidic materials organic films new materials and methods The series of German Vietnamese seminars was initiated and sponsored by the Gottlieb Daimler and Karl Benz Foundation since 1998 and took place alt nately in both countries These bilateral meetings brought together top notch senior and junior Vietnamese scientists with German Scientists and stimulated many contacts and co operations Under the general title Physics and Engine ing the programs covered in the form of keynote lectures oral presentations and posters experimental and theoretical cutting edge material physics oriented topics The majority of the contributions was dealing with modern topics of material science particularly nanoscience which is a research field of high importance also in Vietnam Modern material science allows a guick transfer of research results to technical applications which is very useful for fast developing countries like Vietnam On the other hand the seminars took profit from the strong cro fertilization of the different disciplines of physics This book is dedicated to the tenth anniversary of the seminars and nicely shows the scientific progress in Vietnam and the competitive level reached Effects of Electric Fields on Structure and Reactivity Sason Shaik, Thijs Stuyver, 2021-03-05 Electric field mediated chemistry is an emerging topic that is rapidly growing and fanning out in many directions It involves theoretical and experimental aspects as well as intense interplay between them including breakthrough achievements such as the proof of principle that a Diels Alder reaction which involves two simultaneous C C bond making events can be catalysed or inhibited simply by changing the direction of an oriented external electric field OEEF This productive interplay between the theoretical and experimental branches of chemistry is continuing and gradually defining a new sub field wherein various sources of electric fields whether external or built in and designed or even surface induced fields plasmons are brought to bear on chemical reactions molecular structures and nano systems leading to control of reactivity selectivity chirality molecular orientations changes in structure and in dynamics Written by leaders in the field Effects of Electric Fields on Structure and Reactivity is the first book on this exciting topic Starting with an overview of the theory behind and demonstrations of the effect of electric fields on structure and reactivity this accessible reference work aims to encourage those new to the field to consider harnessing these effects in their own work Covering applications and recent theoretical developments it is a useful resource for theoretical chemists and Progress in Ultrafast Intense Laser Science VI Kaoru Yamanouchi, Gustav Gerber, Andre D experimentalists alike Bandrauk, 2010-11-25 The PUILS series delivers reviews of progress in Ultrafast Intense Laser Science an emerging field This sixth volume covers a broad range of topics from this interdisciplinary research field to provide a state of the art report of short time Laser physics Advances in Chemical Physics, Volume 148 Stuart A. Rice, Aaron R. Dinner, 2011-12-28 The Advances in Chemical Physics series the cutting edge of research in chemical physics 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 offers contributions from internationally renowned chemists and serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics This volume explores Control of Quantum Phenomena Constantin Brif Raj Chakrabarti and Herschel Rabitz Crowded Charges in Ion Channels Bob Eisenberg Colloidal Crystallization Between Two and Three Dimensions H L wen E C Oguz L Assoud and R Messina Statistical Mechanics of Liquids and Fluids in Curved Space Gilles Tarjus Fran ois Sausset and Pascal Viot

Ultrafast Dynamics Driven by Intense Light Pulses Markus Kitzler, Stefanie Gräfe, 2015-07-24 This book documents the recent vivid developments in the research field of ultrashort intense light pulses for probing and controlling ultrafast dynamics The recent fascinating results in studying and controlling ultrafast dynamics in ever more complicated systems such as bio molecules and structures of meso to macroscopic sizes on ever shorter time scales are presented The book is written by some of the most eminent experimental and theoretical experts in the field It covers the new groundbreaking research directions that were opened by the availability of new light sources such as fully controlled intense laser fields with durations down to a single oscillation cycle short wavelength laser driven attosecond pulses and intense X ray pulses from the upcoming free electron lasers These light sources allowed the investigation of dynamics in atoms molecules clusters on surfaces and very recently also in nanostructures and solids in new regimes of parameters which in turn led to the identification of completely new dynamics and methods for controlling it Example topics covered by this book include the study of ultrafast processes in large molecules using attosecond pulses control of ultrafast electron dynamics in solids with shaped femtosecond laser pulses light driven ultrafast plasmonic processes on surfaces and in nanostructures as well as research on atomic and molecular systems under intense X ray radiation This book is equally helpful for people who would like to step into this field e g young researchers for whom it provides a broad introduction as well as for already experienced researchers who may enjoy the exhaustive discussion that covers the research on essentially all currently studied objects and with all available ultrafast pulse sources

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