

***ULTRAFAST
PROCESSES IN
SPECTROSCOPY***

***Edited by
O. Svelto
S. De Silvestri and
G. Denardo***

Ultrafast Processes In Spectroscopy Nato Asi Series Series B Physics

**Harold L. Grubin, David K. Ferry, C.
Jacoboni**



Ultrafast Processes In Spectroscopy Nato Asi Series Series B Physics:

Ultrafast Dynamics of Quantum Systems Baldassare di Bartolo, 2006-04-11 Based on a NATO Advanced Summer Institute this volume discusses physical models mathematical formalisms experimental techniques and applications for ultrafast dynamics of quantum systems These systems are used in laser optics spectroscopy and utilize monochromaticity spectral brightness coherence power density and tunability of laser sources

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-11 [Advances In Energy Transfer Processes - Proceedings Of](#)

[The 16th Course Of The International School Of Atomic And Molecular Spectroscopy](#) Baldassare Di Bartolo, Xuesheng Chen, 2001-11-23 This book describes advances in both experimental and theoretical treatments in the field of energy transfer processes that are relevant to various fields such as spectroscopy laser technology phosphors artificial solar energy conversion and photobiology It presents the principles and available techniques through specific examples In addition it examines current and possible applications including the most recent developments and projects future advances and research possibilities in the field

The Physics of Submicron Semiconductor Devices (Nato Asi Series. Series B. Physics, Vol 180) Harold L. Grubin, David K. Ferry, C. Jacoboni, 1988 The papers contained in the volume represent lectures delivered as a 1983 NATO ASI held at Urbino Italy The lecture series was designed to identify the key submicron and ultrasubmicron device physics transport materials and contact issues Nonequilibrium transport quantum transport interfacial and size constraints issues were also highlighted The ASI was supported by NATO and the European Research Office H L Grubin D K Ferry C Jacoboni v CONTENTS MODELLING OF SUB MICRON DEVICES 1 E Constant BOLTZMANN TRANSPORT EQUATION 33 K Hess TRANSPORT AND MATERIAL CONSIDERATIONS FOR SUBMICRON DEVICES 45 H L Grubin EPITAXIAL GROWTH FOR SUB MICRON STRUCTURES 179 C E C Wood INSULATOR SEMICONDUCTOR INTERFACES 195 C W Wilms en THEORY OF THE ELECTRONIC STRUCTURE OF SEMICONDUCTOR SURFACES AND INTERFACES 223 C Calandra DEEP LEVELS AT COMPOUND SEMICONDUCTOR INTERFACES 253 W Monch ENSEMBLE MONTE CARLO TECHNIQUES 289 C Jacoboni NOISE AND DIFFUSION IN SUBMICRON STRUCTURES 323 L Reggiani SUPERLATTICES 361 K Hess SUBMICRON LITHOGRAPHY 373 C D W Wilkinson and S P Beaumont QUANTUM EFFECTS IN DEVICE STRUCTURES DUE TO SUBMICRON CONFINEMENT IN ONE DIMENSION 401 B D McCombe vii viii CONTENTS PHYSICS OF HETEROSTRUCTURES AND HETEROSTRUCTURE DEVICES 445 P J Price CORRELATION EFFECTS IN SHORT TIME NONSTATIONARY TRANSPORT 477 J J Niez DEVICE DEVICE INTERACTIONS 503 D K Ferry QUANTUM TRANSPORT AND THE WIGNER FUNCTION 521 G J Iafrate FAR INFRARED MEASUREMENTS OF VELOCITY OVERSHOOT AND HOT ELECTRON DYNAMICS IN SEMICONDUCTOR DEVICES 577 S J Allen Jr [Semiconductor Optics](#) Claus F. Klingshirn, 2012-07-06 The updated and enlarged new edition of this book provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV It includes coverage of linear and nonlinear

optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory The mathematics is kept as elementary as possible The subjects covered extend from physics to materials science and optoelectronics New or updated chapters add coverage of current topics while the chapters on bulk materials have been revised and updated

Ultrafast Processes in Spectroscopy Orazio Svelto, Sandro De Silvestri, Gallieno Denardo, 1996 Presents papers from the fall 1995 symposium concentrating on the generation of ultrashort optical pulses and their application to studies of ultrafast phenomena in physics chemistry materials science electronics and biology Contains sections on ultrashort pulse lasers ultrafast spectroscopy

Frontiers of Optical Spectroscopy Baldassare Di Bartolo, Ottavio Forte, 2006-03-30 Advanced spectroscopic techniques allow the probing of very small systems and very fast phenomena conditions that can be considered extreme at the present status of our experimentation and knowledge Quantum dots nanocrystals and single molecules are examples of the former and events on the femtosecond scale examples of the latter The purpose of this book is to examine the realm of phenomena of such extreme type and the techniques that permit their investigations Each author has developed a coherent section of the program starting at a somewhat fundamental level and ultimately reaching the frontier of knowledge in the field in a systematic and didactic fashion The formal lectures are complemented by additional seminars

Ultrafast Phenomena in Semiconductors Kong-Thon Tsen, 2001 There are many books in the market devoted to the review of certain fields This book is different from those in that authors not only provide reviews of the fields but also present their own important contributions to the fields in a tutorial way As a result researchers who are already in the field of ultrafast dynamics in semiconductors and its device applications as well as researchers and graduate students just entering the field will benefit from it This book is made up of recent new developments in the field of ultrafast dynamics in semiconductors It consists of nine chapters Chapter 1 reviews a microscopic many body theory which allows one to compute the linear and non linear optical properties of semiconductor superlattices in the presence of homogeneous electric fields Chapter 2 deals with ultrafast intersubband dynamics in quantum wells and device structures Chapter 3 is devoted to Bloch oscillations in semiconductors and their applications Chapter 4 discusses transient electron transport phenomena such as electron ballistic transport and electron velocity overshoot phenomena as well as non equilibrium phonon dynamics in nanostructure semiconductors Chapter 5 reviews experimental and theoretical work on the use of the phase properties of one or more ultrashort optical pulses to generate and control electrical currents in semiconductors

Spectroscopy of Systems with Spatially Confined Structures Baldassare di Bartolo, 2012-12-06 Nanometer scale physics is progressing rapidly the top down approach of semiconductor technology will soon encounter the scale of the bottom up approaches of supramolecular chemistry and spatially localized excitations in ionic crystals Advances in this area have already led to applications in optoelectronics More may be expected This book deals with the role of structure confinement in the spectroscopic characteristics of physical systems It examines the fabrication measurement and

understanding of the relevant structures It reports progress in the theory and in experimental techniques starting with the consideration of fundamental principles and leading to the frontiers of research The subjects dealt with include such spatially resolved structures as quantum wells quantum wires quantum dots and luminescence in both theoretical and practical terms

Semiconductor Optics 2 Heinz Kalt, Claus F. Klingshirn, 2024-03-16 This book provides an introduction to and an overview of the multifaceted area of dynamics and nonlinearities related to optical excitations in semiconductors It is a revised and significantly extended edition of the well established book by C Klingshirn split into two volumes and restructured to make it more concise Inserts on important experimental techniques reference to topical research and novel materials as well as consideration of photonic applications support research oriented teaching and learning This book reviews nonlinear optical properties and many body phenomena evoked by high densities of quasi particles in semiconductors Coherent dynamics and relaxation of optical excitations carriers excitons electron hole plasmas etc as well as condensation phenomena are elucidated in these materials A broad overview is provided of seminal research results augmented by detailed descriptions of the relevant experimental techniques e g ultrafast spectroscopy four wave mixing and the Hanbury Brown and Twiss experiment Offering a comprehensive introduction to hot topics in current research polariton condensates valley coherence and single photons to name a few it also discusses applications of the described physical concepts in topical areas such as quantum information photonics spintronics and optoelectronics Covering subjects ranging from physics to materials science and optoelectronics the book provides a lively and comprehensive introduction to semiconductor optics beyond the linear regime With many problems chapter introductions schematic depictions of physical phenomena as well as boxed inserts and a detailed index it is suitable for use in graduate courses in physics and neighboring sciences like material science and optical communication It is also a valuable reference resource for doctoral and advanced researchers

Ultrafast Physical Processes in Semiconductors, 2000-10-06 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials

scientists and device engineers in modern industry **Advances in Spectroscopy for Lasers and Sensing** Baldassare Di Bartolo, Ottavio Forte, 2006-07-21 This volume presents the Proceedings of New Development in Optics and Related Fields held in Italy in June 2005 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Center for Scientific Culture The purpose of this Institute was to provide a comprehensive and coherent treatment of the new techniques and contemporary developments in optics and related fields Ultrashort Processes in Condensed Matter Walter E. Bron, 2012-12-06 The Advanced Study Institute ASI considered a number of facets of the very rapidly advancing field of theoretical and experimental aspects of ultrashort processes in condensed matter Common threads exist between a series of example cases One major subgroup of topics involves the ultrashort dynamics of excitations of various particles produced through the interactions of condensed matter with ultrashort duration laser light Examples of the excitations include electronic and hole carriers electron hole plasma phonons vibrons and rotons two phonon states and excitons Experimentation on the dynamics of such excitations are carried out in the bulk at surfaces in thin films and in quantum wells The dynamical steps which the excitations usually undergo include photo excitation local thermalization particle particle interaction particle phonon interactions and eventual return to true thermal equilibrium This ASI was organized to benefit particularly advanced graduate students specifically those near the end of their Ph D thesis projects and also for postdoctoral scholars already active in the field The overall organizational goal was centered around a set of tutorially based lectures intermingled with full scale discussion periods of equal time and importance as the lectures The general discussion periods were designed to offer to the participants ample time to ask detailed questions and to make comments and contributions of their own In order to complete the involvement of the participants a full length poster session was also held A representative set of abstracts of these posters appear as an Appendix to the lectures Advances in Atomic, Molecular, and Optical Physics, 1994-07-26 The latest volume in the highly acclaimed series addresses atomic collisions assessing the status of the current knowledge identifying deficiencies and exploring ways to improve the quality of cross section data Eleven articles written by foremost experts focus on cross section determination by experiment or theory on needs in selected applications and on efforts toward the compilation and dissemination of data This is the first volume edited under the additional direction of Herbert Walther Presents absolute cross sections for atomic collisions Uses benchmark measurements and benchmark calculations Discusses needs for cross section data in applications Contains a guide to data resources bibliographies and compendia 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 10^{20} intensities up to 10 W/cm² 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

Ultrafast Nonlinear Optics Robert Thomson, Christopher Leburn, Derryck Reid, 2013-03-20 The field of ultrafast nonlinear optics is broad and multidisciplinary and encompasses areas concerned with both the generation and measurement of ultrashort pulses of light as well as those concerned with the applications of such pulses Ultrashort pulses are extreme events both in terms of their durations and also the high peak powers which their short durations can facilitate These extreme properties make them powerful experiment tools On one hand their ultrashort durations facilitate the probing and manipulation of matter on incredibly short timescales On the other their ultrashort durations can facilitate high peak powers which can drive highly nonlinear light matter interaction processes Ultrafast Nonlinear Optics covers a complete range of topics both applied and fundamental in nature within the area of ultrafast nonlinear optics Chapters 1 to 4 are concerned with the generation and measurement of ultrashort pulses Chapters 5 to 7 are concerned with fundamental applications of ultrashort pulses in metrology and quantum control Chapters 8 and 9 are concerned with ultrafast nonlinear optics in optical fibres Chapters 10 to 13 are concerned with the applications of ultrashort pulses in areas such as particle acceleration microscopy and micromachining The chapters are aimed at graduate student level and are intended to provide the student with an accessible self contained and comprehensive gateway into each subject

Ultrafast Phenomena in Semiconductors, 2001 **Femtochemistry: Ultrafast Dynamics Of The Chemical Bond (In 2 Volumes) - Volume 2**

Ahmed H Zewail, 1994-09-12 These two volumes on Femtochemistry present a timely contribution to a field central to the understanding of the dynamics of the chemical bond This century has witnessed great strides in time and space resolutions down to the atomic scale providing chemists biologists and physicists with unprecedented opportunities for seeing microscopic structures and dynamics Femtochemistry is concerned with the time resolution of the most elementary motions of atoms during chemical change bond breaking and bond making on the femtosecond 10⁻¹⁵ second time scale This atomic scale of time resolution has now reached the ultimate for the chemical bond and as Lord George Porter puts it chemists are near the end of the race against time These two volumes cover the general concepts techniques and applications of

femtochemistry Professor Ahmed Zewail who has made the pioneering contributions in this field has from over 250 publications selected the articles for this anthology These volumes begin with a commentary and a historical chronology of the milestones He then presents a broad perspective of the current state of knowledge in femtochemistry by researchers around the world and discusses possible new directions In the words of a colleague it is a must on the reading list for all of my students all readers will find this to be an informative and valuable overview The introductory articles in Volume I provide reviews for both the non experts as well as for experts in the field This is followed by papers on the basic concepts For applications elementary reactions are studied first and then complex reactions Volume I is complete with studies of solvation dynamics non reactive systems ultrafast electron diffraction and the control of chemical reactions Volume II continues with reaction rates the concept of elementary intramolecular vibrational energy redistribution IVR and the phenomena of rotational coherence which has become a powerful tool for the determination of molecular structure via time resolution The second volume ends with an extensive list of references according to topics based on work by Professor Zewail and his group at Caltech These collected works by Professor Zewail will certainly be indispensable to both experts and beginners in the field The author is known for his clarity and for his creative and systematic contributions These volumes will be of interest and should prove useful to chemists biologists and physicists As noted by Professor J Manz Berlin and Professor A W Castleman Jr Penn State femtochemistry is yielding exciting new discoveries from analysis to control of chemical reactions with applications in many domains of chemistry and related fields e g physical organic and inorganic chemistry surface science molecular biology etc

The British National Bibliography Arthur James Wells,2000 *Mixing* H. Chaté,E. Villermaux,J.-M. Chomaz,2012-12-06 Mixing may be thought of as the operation by which a system evolves from one state of simplicity initial segregation to another state of simplicity complete uniformity Between these two extremes complex patterns emerge and die Questions naturally arise how can the geometry of complex patterns be characterised what is the time scale of the process what structures are involved in the flow This volume comprising the proceedings of the NATO ASI on Mixing attempts to address these questions from the approaches of geometry kinetics and structure The ASI which brought together diverse communities with a common interest in the problem of mixing now provides us with a comprehensive work on the problem of mixing

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