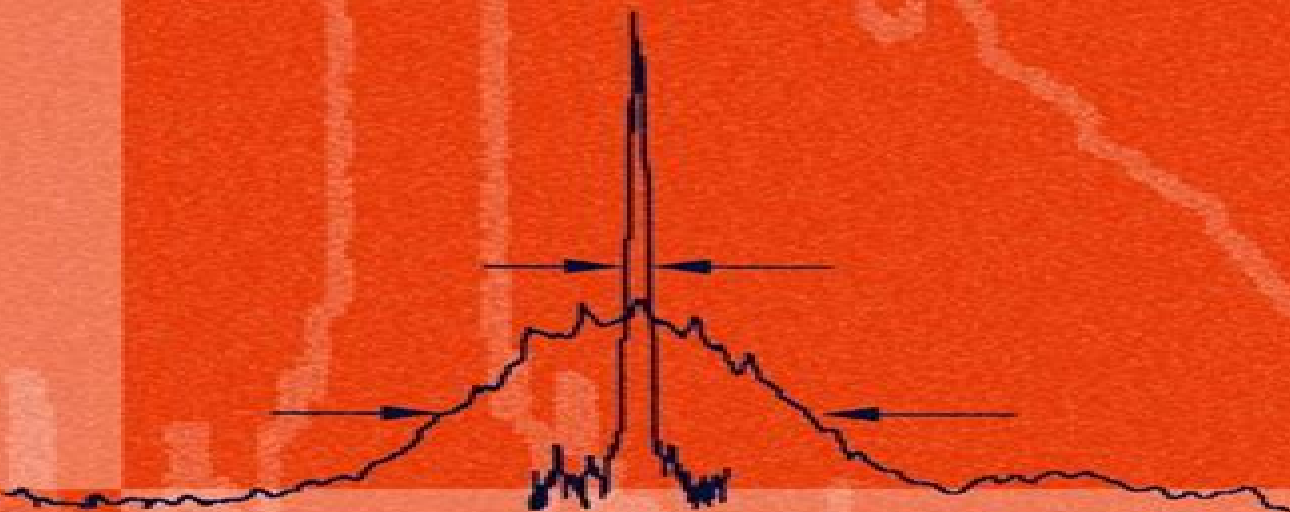


C. Rullière (Ed.)

Femtosecond Laser Pulses

Principles and Experiments



Springer

Femtosecond Laser Pulses Principles And Experiments

F. J. Duarte



Femtosecond Laser Pulses Principles And Experiments:

Femtosecond Laser Pulses Claude Rullière, 2013-11-11 This book is an advanced textbook for scientists who require further training in femtosecond science It is the result of a scientific adventure that started in 1991 At this time the French Ministry of Education decided that in view of the growing importance of ultrashort laser pulses for the national scientific community a Femtosecond Centre should be created in France and devoted to the further education of scientists who use femtosecond pulses as a research tool and who are not specialists in lasers or even in optics After different proposals from different institutions Universite Bordeaux I and our laboratory were finally selected to ensure the success of this new centre Since the scientists involved were located throughout France it was decided that the training courses should be concentrated into a short period of at least 5 days It is certainly a challenge to give a good grounding in the science of femtosecond pulses in such a short period to scientists who do not necessarily have the required scientific background and are in some cases involved only as users of these pulses as a tool To start we contacted well known specialists from the French femtosecond community we are very thankful that they showed their enthusiasm and immediately started work on this fascinating project Our adventure began in 1992 and each year since generally in spring we have organized a one week femtosecond training course at the Bordeaux University

Femtosecond Laser Pulses Claude Rulliere, 2007-05-27 This smooth introduction for advanced undergraduates starts with the fundamentals of lasers and pulsed optics Thus prepared the student is introduced to short and ultrashort laser pulses and learns how to generate manipulate and measure them Spectroscopic implications are also discussed The second edition has been completely revised and includes two new chapters on some of the most promising and fast developing applications in ultrafast phenomena coherent control and attosecond pulses

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Femtosecond Laser Filamentation See Leang Chin, 2010-03-10 This book attempts to give a discussion of the physics and current and potential applications of the self focusing of an intense femtosecond laser pulse in a transparent medium Although self focusing is an old subject of nonlinear optics the consequence of self focusing of intense femtosecond laser pulses is totally new and unexpected Thus new phenomena are observed such as long range filamentation intensity clamping white light laser pulse self spatial filtering self group phase locking self pulse compression clean nonlinear fluorescence and so on Long range propagation at high intensity which is seemingly against the law of diffraction is probably one of the most exciting consequences of this new sub field of nonlinear optics Because the intensity inside the filament core is high new ways of doing nonlinear optics inside the filament become possible We call this filamentation nonlinear optics We shall describe the generation of pulses at other wavelengths in

the visible and ultraviolet UV starting from the near infrared pump pulse at 800 nm through four wave mixing and third harmonic generation all in gases Remotely sensing uorescence from the fragments of chemical and biological agents in all forms gaseous aerosol or solid inside the laments in air is demonstrated in the labo tory The results will be shown in the last part of the book Through analyzing the uorescence of gas molecules inside the lament an unexpected physical process pertaining to the interaction of synchrotron radiation with molecules is observed

Laser Pulses Igor Peshko,2012-10-17 This book discusses aspects of laser pulses generation characterization and practical applications Some new achievements in theory experiments and design are demonstrated The introductive chapter shortly overviews the physical principles of pulsed lasers operation with pulse durations from seconds to yoctoseconds A theory of mode locking based on the optical noise concept is discussed With this approximation all paradoxes of ultrashort laser pulse formation have been explained The book includes examples of very delicate laser operation in biomedical areas and extremely high power systems used for material processing and water purification We hope this book will be useful for engineers and managers for professors and students and for those who are interested in laser science and technologies

Introduction to Laser Spectroscopy Halina Abramczyk,2005-05-06 Introduction to Laser Spectroscopy is a well written easy to read guide to understanding the fundamentals of lasers experimental methods of modern laser spectroscopy and applications It provides a solid grounding in the fundamentals of many aspects of laser physics nonlinear optics and molecular spectroscopy In addition by comprehensively combining theory and experimental techniques it explicates a variety of issues that are essential to understanding broad areas of physical chemical and biological science Topics include key laser types gas solid state and semiconductor as well as the rapidly evolving field of ultrashort laser phenomena for femtochemistry applications The examples used are well researched and clearly presented Introduction to Laser Spectroscopy is strongly recommended to newcomers as well as researchers in physics engineering chemistry and biology A comprehensive course that combines theory and practice Includes a systematic and comprehensive description for key laser types Written for students and professionals looking to gain a thorough understanding of modern laser spectroscopy

Electromagnetic and Optical Pulse Propagation Kurt E. Oughstun,2019-07-17 In two volumes this book presents a detailed systematic treatment of electromagnetics with application to the propagation of transient electromagnetic fields including ultrawideband signals and ultrashort pulses in dispersive absorptive media This expanded updated and reorganized new edition presents a rigorous development of both time and frequency domain electromagnetics from classical theory to current topics in applied research on temporally pulsed wave fields in dielectric conducting and semiconducting materials With meaningful exercises throughout it is suitable as a graduate textbook in electromagnetic wave theory and will be of use to researchers as a resource on electromagnetic radiation and wave propagation theory with applications to radar imaging communications and safety issues Volume 1 develops the fundamental Maxwell Lorentz theory of microscopic electromagnetics and its

relationship to macroscopic electromagnetics in complex media with particular emphasis given to temporally dispersive materials supplemented with several appendices on mathematical methods The second edition includes new material on conjugate electromagnetic fields time reversal invariance the four potential and Lorentz invariance anisotropic and spatially dispersive media double negative metamaterials and generalized Fresnel reflection and refraction coefficients for complex media The relationship between both the mathematical and physical interpretation of classical electromagnetic field theory with the special theory of relativity is emphasized throughout the volume Volume 2 covers temporal pulse dynamics in dispersive attenuative media with asymptotic analysis at the forefront

Nanostructured And Photoelectrochemical Systems For Solar Photon Conversion Mary D Archer, Arthur J Nozik, Xin Ai, Jessica Benson-smith, 2008-08-04 In this book expert authors describe advanced solar photon conversion approaches that promise highly efficient photovoltaic and photoelectrochemical cells with sophisticated architectures on the one hand and plastic photovoltaic coatings that are inexpensive enough to be disposable on the other Their leitmotifs include light induced exciton generation junction architectures that lead to efficient exciton dissociation and charge collection by percolation through mesoscale phases Photocatalysis is closely related to photoelectrochemistry and the fundamentals of both disciplines are covered in this volume

Spectroscopy of Emerging Materials Eric C. Faulques, Dale L. Perry, Andrei V. Yermenko, 2006-01-14 A comprehensive discussion of the key role of modern spectroscopic investigations in interdisciplinary materials science and engineering covering emerging materials that are either absolutely novel or well known materials with recently discovered exciting properties The types of spectroscopy discussed include optical electronic and magnetic UV visible absorption Rayleigh scattering photoluminescence vibrational magnetic resonance electron energy loss EXAFS XANES optical tomography time resolved spectroscopy and point contact spectroscopy The materials studied are highly topical with a focus on carbon and silicon nanomaterials including nanotubes fullerenes nanoclusters metallic superconducting phases molecular materials magnetic and charge stripe oxides and biomaterials Theoretical treatments are presented of molecular vibrational dynamics vibration induced decay of electronic excited states nanoscale spin orbit coupling in 2D Si based structures and the growth of semiconductor clusters

Coherence and Ultrashort Pulse Laser Emission F. J. Duarte, 2010-12-30 In this volume recent contributions on coherence provide a useful perspective on the diversity of various coherent sources of emission and coherent related phenomena of current interest These papers provide a preamble for a larger collection of contributions on ultrashort pulse laser generation and ultrashort pulse laser phenomena Papers on ultrashort pulse phenomena include works on few cycle pulses high power generation propagation in various media to various applications of current interest Undoubtedly Coherence and Ultrashort Pulse Emission offers a rich and practical perspective on this rapidly evolving field

Reviews of Reactive Intermediate Chemistry Matthew S. Platz, Robert A. Moss, Maitland Jones, Jr., 2007-04-20 The chemistry of reactive intermediates is central to a modern mechanistic and quantitative understanding of organic chemistry

Moreover it underlies a significant portion of modern synthetic chemistry and is integral to a molecular view of biological chemistry Reviews in Reactive Intermediate Chemistry presents an up to date authoritative guide to this fundamental topic Although it follows Reactive Intermediate Chemistry by the same authors it serves as a free standing resource for the entire chemical and biochemical community The book includes Relevant practical applications Coverage of such topics as mass spectrometry methods reactive intermediates in interstellar medium quantum mechanical tunnelling solvent effects reactive intermediates in biochemical processes and excited state surfaces Discussions of emerging areas particularly those involving dynamics and theories Concluding sections identifying key directions for future research are provided at the end of each chapter

Advances in Energy Transfer Processes Xuesheng Chen,Baldassare Di Bartolo,2001 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

Contents Fundamental Interactions Leading to Energy Transfer B Di Bartolo Energy Transfer Processes in Atoms and Molecules W Demtröder et al Advances in the Techniques for the Study of Energy Transfer D Hulin Upconversion Phenomena with Laser Applications X Chen New Applications of Ultrafast Spectroscopy J M Hvam Efficient Solid State Lasers N P Barnes Emission Efficiency and Energy Transfer in Color Centers at High Concentrations G Baldacchini Four Wave Mixing Studies of Energy Transfer Processes G Boulon Upconversion Light Emissions in Rare Earth Doped Solids F Auzel Photonic Molecular and Supramolecular Devices J M Lehn Reflections on the Theory of Everything G Costa Earthquakes Measurements and Mitigation of Seismic Risk R Console Site Selectivity of Defects in III/II-VI Compounds by Local Mode Spectroscopy and Model Calculations D N Talwar The General Non Radiative Energy Transfer Master Equations for Crystalline Materials the Exact Solution and Current Modeling L A D az Torres et al and other papers Readership Researchers and graduate students in the fields of lasers and optics

Molecular Conformation and Organic Photochemistry Rasmus Y. Brogaard,2012-05-17 Rasmus Brogaard s thesis digs into the fundamental issue of how the shape of a molecule relates to its photochemical reactivity This relation is drastically different from that of ground state chemistry since lifetimes of excited states are often comparable to or even shorter than the time scales of conformational changes Combining theoretical and experimental efforts in femto second time resolved photoionization Rasmus Brogaard finds that a requirement for an efficient photochemical reaction is the prearrangement of the constituents in a reactive conformation Furthermore he is able to show that by exploiting a strong ionic interaction between two chromophores a coherent molecular motion can be induced and probed in real time This way of using bichromophoric interactions provides a promising strategy for future research on conformational dynamics

Optoelectronics Sergei Pyshkin,John Ballato,2015-10-07 Optoelectronics

Materials and Devices follows the Optoelectronics Books II and III published in 2011 and 2013 as part of the InTech collection of international works on optoelectronics Accordingly as with the first two books of the collection this book covers recent achievements by specialists around the world The growing number of countries participating in this endeavor as well as joint participation of the US and Moldova scientists in this edition testifies to the unifying effect of science An interested reader will find in the book the description of properties and applications employing organic and inorganic materials as well as the methods of fabrication and analysis of operation and regions of application of modern optoelectronic devices

Studies of Photoinduced Molecular Dynamics Using a Fast Imaging Sensor Craig S. Slater, 2015-10-15 The work presented in this thesis involves a number of sophisticated experiments highlighting novel applications of the Pixel Imaging Mass Spectrometry PImMS camera in the field of photoinduced molecular dynamics This approach represents the union of a new enabling technology a multiple memory register CMOS based pixel detector with several modern chemical physics approaches and represents a significant leap forward in capabilities Applications demonstrated include three dimensional imaging of photofragment Newton spheres simultaneous electron ion detection using a single sensor and ion ion velocity correlation measurements that open the door to novel covariance imaging experiments When combined with Coulomb explosion imaging such an approach is demonstrated to allow the measurement of molecular structure and motion on a femtosecond timescale This is illustrated through the controlled photoexcitation of torsional motion in biphenyl molecules and the subsequent real time measurement of the torsional angle

9th Congress on Electronic Structure: Principles and Applications (ESPA 2014) Manuel F. Ruiz-Lopez, Francisco J. Olivares del Valle, 2016-03-04 This volume collects research findings presented at the 9th Edition of the Electronic Structure Principles and Applications ESPA 2014 International Conference held in Badajoz Spain on July 2-4 2014 The contributions cover research work on theory methods and foundations materials science structure and chemical reactivity as well as environmental effects and modelling Originally published in the journal Theoretical Chemistry Accounts these outstanding papers are now available in a hardcover print format as well as a special electronic edition This volume provides valuable content for all researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal

Handbook of Solid-State Lasers B Denker, E Shklovsky, 2013-02-20 Solid state lasers which offer multiple desirable qualities including enhanced reliability robustness efficiency and wavelength diversity are absolutely indispensable for many applications The Handbook of solid state lasers reviews the key materials processes and applications of solid state lasers across a wide range of fields Part one begins by reviewing solid state laser materials Fluoride laser crystals oxide laser ceramics crystals and fluoride laser ceramics doped by rare earth and transition metal ions are discussed alongside neodymium erbium and ytterbium laser glasses and nonlinear crystals for solid state lasers Part two then goes on to explore solid state laser systems and their applications beginning with a discussion of the principles powering and operation regimes for solid state lasers The

use of neodymium doped materials is considered followed by system sizing issues with diode pumped quasi three level materials erbium glass lasers and microchip fiber Raman and cryogenic lasers Laser mid infrared systems laser induced breakdown spectroscopy and the clinical applications of surgical solid state lasers are also explored The use of solid state lasers in defense programs is then reviewed before the book concludes by presenting some environmental applications of solid state lasers With its distinguished editors and international team of expert contributors the Handbook of solid state lasers is an authoritative guide for all those involved in the design and application of this technology including laser and materials scientists and engineers medical and military professionals environmental researchers and academics working in this field Reviews the materials used in solid state lasers Explores the principles of solid state laser systems and their applications Considers defence and environmental applications *Kinetics of Homogeneous Multistep Reactions* Friedrich G. Helfferich, 2001-01-25 This book addresses primarily the chemist and engineer in industrial research and process development where competitive pressures put a premium on scale up by large factors to cut development time To be safe such scale up should be based on fundamental kinetics that is mathematics that reflect the elementary steps of which the reactions consist The book forges fundamental kinetics into a practical tool by presenting new effective methods for elucidation of mechanisms and reduction of mathematical complexity without unacceptable sacrifice in accuracy *Military Laser Technology and Systems* David H. Titterton, 2015-03-01 This new resource provides an insight into the physical principles of the device technology that underpins many laser based military systems in one form or another From this knowledge a deeper understanding of the fundamental requirements and the potential performance as well as limitations of such systems may be assessed given the appropriate operational parameters Engineers and students are provided with practical advice on how to evaluate laser devices and systems operate them safely and train with them **Ultrafast Dynamics of Low Energy Elementary Excitations in Semiconductors** Troy Eugene Stevens, 2000

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