

Laser Spectroscopy and Nonlinear Optics of Solids

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Laser Spectroscopy And Nonlinear Optics Of Solids

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Laser Spectroscopy And Nonlinear Optics Of Solids:

Laser Spectroscopy and Nonlinear Optics of Solids S. Radhakrishna, B. C. Tan, 1990 Laser spectroscopy in solids has become one of the most exciting fields in solid state physics Its importance has become particularly apparent since the advent of a number of new materials both organic and inorganic whose nonlinear optical properties can be used to generate laser beams over a wide spectroscopic range In laboratories all over the world efforts are being made to produce new nonlinear optical materials which have attractive features for spectroscopic work In this book the present status of the field is reviewed by researchers who have made significant contributions to the development of this frontier area Is is an excellent introduction for anyone beginning research on the nonlinear optics of solids

Laser Spectroscopy and Nonlinear Optics of Solids S. Radhakrishna, B. C. Tan, 1990 Nonlinear Optics and Solid-State Lasers Jianquan Yao, Yuyue Wang, 2012-01-14 This book covers the complete spectrum of nonlinear optics and all solid state lasers The book integrates theory calculations and practical design technology experimental schemes and applications With the expansion and further development of Laser technology the wavelength spectrum of Lasers had to be enlarged even to be tunable which requires the use of nonlinear optical and Laser tunable technology It systematically summarizes and integrates the analysis of international achievements within the last 20 years in this field It will be helpful for university teachers graduate students as well as engineers

Laser Spectroscopy of Solids II William M. Yen, 2006-01-21 Laser based optical spectroscopies are powerful and versatile techniques that are continuing to evolve and find new applications This book presents reviews of recent progress in our understanding of the spectra and dynamical processes of optically excited states of condensed matter focusing on the advances made possible by the application of laser based optical spectroscopies Reviews are given of the optical properties of crystalline and amorphous semiconducting materials and structures the properties of defect centers in insulators two photon nonlinear processes in insulators optical energy diffusion in inorganic materials and relaxation in organic materials The individual chapters emphasize the methodology common to the various investigations The volume is designed to be suitable as an introduction to applied laser spectroscopy of solids as well as providing an update on the status of the field

Nonlinear Spectroscopy of Solids Baldassare di Bartolo, 2013-11-21 This report presents an account of the course Nonlinear Spectroscopy of Solids Advances and Applications held in Erice Italy from June 16 to 30 1993 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture The purpose of this course was to present and discuss physical models mathematical formalisms experimental techniques and applications relevant to the subject of nonlinear spectroscopy of solid state materials The universal availability and application of lasers in spectroscopy has led to the widespread observation of nonlinear effects in the spectroscopy of materials Nonlinear spectroscopy encompasses many physical phenomena which have their origin in the monochromaticity spectral brightness coherence power density and tunability of laser sources Conventional spectroscopy

assumes a linear dependence between the applied electromagnetic field and the induced polarization of atoms and molecules. The validity of this assumption rests on the fact that even the most powerful conventional sources of light produce a light intensity which is not strong enough to equalize the rate of stimulated emission and that of the experimentally observed decay. A different situation may arise when laser light sources are used, particularly pulsed lasers. The use of such light sources can make the probability of induced emission comparable to or even greater than the probability of the observed decay. In such cases the nonlinearity of the response of the system is revealed by the experimental data and new properties not detectable by conventional spectroscopy will emerge. *Lasers and Masers*, 1965. *Solid State Physics* S. L. Chaplot, 2002. This volume covers the proceedings of the 44th Department of Atomic Engineering DAE Solid State Physics Symposium. With contributions of papers from institutions from around the world. Contains 316 research articles including 28 invited papers on a wide range of topics of current interest in solid state physics comprising the following categories: Phase Transitions, Phonons, Soft condensed Matter, Electronic Structure, Novel Materials, Superconductivity, Experimental Techniques and Instrumentation, Magnetism, Liquids, Glasses and Amorphous Systems, Transport Properties, Relaxation Studies, Semiconductor Physics, Surface Science, Key Features, Recent developments in Synchrotron Research, Photo electron Spectroscopy, Newly emerging superconductors. Optical Processes in Solids Yutaka Toyozawa, 2003-01-09. A unifying element that links the apparently diverse phenomena observed in optical processes is the dielectric dispersion of matter. It describes the response of matter to incoming electromagnetic waves and charged particles and thus predicts their behavior in the self induced field of matter known as polariton and polaron effects. The energies of phonon exciton and plasmon quanta of collective motions of charged particles constituting the matter are also governed by dielectric dispersion. Since the latter is a functional of the former one can derive useful relations for their self consistency. Nonlinear response to laser light inclusive of multiphoton processes and excitation of atomic inner shells by synchrotron radiation are also described. Within the configuration coordinate model photo induced lattice relaxation and chemical reaction are described equally to both ground and relaxed excited states to provide a novel and global perspective on structural phase transitions and the nature of interatomic bonds. This book was first published in 2003. **Laser Spectroscopy of Solids II** William M. Yen, 2014-04-17. Laser based optical spectroscopies are powerful and versatile techniques that are continuing to evolve and find new applications. This book presents reviews of recent progress in our understanding of the spectra and dynamical processes of optically excited states of condensed matter focusing on the advances made possible by the application of laser based optical spectroscopies. Reviews are given of the optical properties of crystalline and amorphous semiconducting materials and structures, the properties of defect centers in insulators, two photon nonlinear processes in insulators, optical energy diffusion in inorganic materials and relaxation in organic materials. The individual chapters emphasize the methodology common to the various investigations. The volume is designed to be suitable as an introduction to applied laser spectroscopy of solids as well

as providing an update on the status of the field Lasers and Masers: a Continuing Bibliography United States. National Aeronautics and Space Administration, 1965 **Optical Properties of Excited States in Solids** Baldassare di Bartolo, 2012-12-06 This book presents an account of the course Optical Properties of Excited States in Solids held in Erice Italy from June 16 to 30 1991 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture The purpose of this course was to present physical models mathematical formalisms and experimental techniques relevant to the optical properties of excited states in solids Some active physical species such as ions or radicals could survive indefinitely if they were completely isolated in space Other active species such as excited molecular and solid state systems are inherently unstable even in isolation due to the spontaneous mechanisms that may convert their excitation energies into radiation or heat Physical parameters that may be used to characterize these excited systems are the localization or delocalization and the coherence or incoherence of their state excitations In solids the excited states whether they are localized as for impurities in insulators or delocalized as they may occur in semiconductors are relevant in several regards Their de excitation is extremely sensitive to the nature of the excitations of the systems and a study of the de excitation processes can yield a variety of information For example the excited states may represent the initial condition of the onset of such processes as Stokes shifted emission hot luminescence symmetry dependent Jahn Teller and scattering processes tunneling processes energy transfer to like and unlike centers superradiance coherent radiation and excited state absorption **Optical Properties of Solids** Mark Fox, 2010-03-25 For final year undergraduates and graduate students in physics this book offers an up to date treatment of the optical properties of solid state materials **Lawrence Livermore National and Sandia National Laboratories, Continued Operation** , 1992 **Tunable Solid State Lasers** P. Hammerling, A.B. Budgor, A. Pinto, 2013-04-17 In recent years there has been renewed interest in the scientific and industrial communities in tunable solid state vibronic lasers Much of this has been spurred by the user desirous of obtaining compact primary laser sources independent of nonlinear optical frequency shifts throughout the visible and near infra red spectral regions To further motivate and stimulate research and development in this area workshops sponsored by the Laser Division of the US Army Night Vision Electro Optics Laboratory NVEOL at Fort Belvoir Virginia were held during 13 April 1981 and 16-17 June 1983 at Keystone and NVEOL respectively The consensus of opinion of the participants at these workshops was that any successful program leading to the identification and development of vibronic tunable laser materials in the visible and IR must include coordinated activity between crystal growers theoretical and experimental investigators into the fundamental processes of vibronic lasing and laser device engineers Continued interaction between government industry and academia was encouraged in order to establish a unified approach to these areas and when necessary redefine and redirect programmatic activity The organization of this 1st Annual Conference on Tunable Solid State Lasers held at the La Jolla Institute 13-15 June 1984 was based around the latest results in tunable vibronic materials and laser development

but structured in a manner consistent with the recommendations of the NVEOL workshops Government Reports
Announcements & Index ,1988 Energy Research Abstracts ,1988 **Dynamics at Solid State Surfaces and**
Interfaces, Volume 1 Uwe Bovensiepen, Hrvoje Petek, Martin Wolf, 2010-11-29 This two volume work covers ultrafast structural and electronic dynamics of elementary processes at solid surfaces and interfaces presenting the current status of photoinduced processes Providing valuable introductory information for newcomers to this booming field of research it investigates concepts and experiments femtosecond and attosecond time resolved methods as well as frequency domain techniques The whole is rounded off by a look at future developments *Ultrafast Photonics* A. Miller, D.T. Reid, D.M. Finlayson, 2019-08-22 Ultrafast photonics has become an interdisciplinary topic of high international research interest because of the spectacular development of compact and efficient lasers producing optical pulses in the femtosecond range This book brings together contributions from experts at major research initiatives around the world to address all aspects of this very active field Topics covered range from the fundamental physics of optical interactions and material properties through to new system concepts for ultrahigh capacity data transfer and processing using femtosecond pulses with emphasis on areas of specific scientific breakthroughs and subsequent technological advances Optical Properties of Solids Anthony Mark Fox, 2001 This book gives an introduction to the optical properties of solids including many new topics that have not been previously covered in other solid state texts at this level The fundamental principles of absorption reflection luminescence and light scattering are discussed for a wide range of materials including crystalline insulators and semiconductors glasses metals and molecular materials Classical and quantum models are used where appropriate along with recent experimental data Examples include semiconductor quantum wells organic semiconductors vibronic solid state lasers and nonlinear optics *The Properties of Optical Glass* Hans Bach, Norbert Neuroth, 2012-12-06 This book entitled The Properties of Optical Glass is one of a series reporting on research and development activities on products and processes conducted by the Schott Group The scientifically founded development of new products and technical processes has traditionally been of vital importance at Schott and has always been performed on a scale determined by the prospects for application of our special glasses The scale has increased enormously since the reconstruction of the Schott Glaswerke in Mainz The range of expert knowledge required for that could never have been supplied by Schott alone It is also a tradition in our company to cultivate collaboration with customers universities and research institutes Publications in numerous technical journals which since 1969 we have edited to a regular timeplan as Forschungsberichte research reports formed the basis of this cooperation They contain up to date information on the most various topics for the expert but are not suited as survey material for those whose standpoint is more remote This is the point where we would like to place our series to stimulate the exchange of thoughts so that we can consider from different points of view the possibilities offered by those incredibly versatile materials glass and glass ceramics We would like to show scientists and engineers interested customers

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