



Selective Laser Spectroscopy Of Activated Crystals And Glasses

S A Kozlov, V V Samartsev



Selective Laser Spectroscopy Of Activated Crystals And Glasses:

Selective Laser Spectroscopy of Activated Crystals and Glasses V.V. Osiko,1990-01 *Selective Laser Spectroscopy of Activated Crystals and Glasses* V. V. Osiko,1990 **Spectroscopy of Crystals Containing Rare Earth Ions** A.A. Kaplyanskii,R.M. McFarlane,2012-12-02 Spectroscopy of Crystals Containing Rare Earth Ions contains chapters on some key problems selected from a broad range of spectroscopic studies of RE activated solids including both crystalline and glassy materials Progress in crystal field theory is surveyed an area which is basic to our understanding of the energy levels The treatment of dynamical properties includes studies of coherence phenomena in isolated ions energy transfer between ions and co operative phenomena associated with ion ion and ion lattice interactions In addition the role of electron spins and nuclear spins is studied by light scattering and double resonance techniques The presence of inhomogeneous broadening of spectral lines is observed and studied in many contexts leading to new insights into general problems of the disordered state Considerable attention is devoted to describing new experimental techniques whose development is of prime importance for progress in the spectroscopy of RE activated solids Many of these rely on the development and application of tunable lasers At the moment this is a very active field of spectroscopy with more exciting developments likely to occur in the future

Formation and Control of Optical Wavefronts P. P. Pashinin,1989 *The Magnetic and Electron Structures of Transition Metals and Alloys* V. G. Veselago,L. I. Vinokurova,1988 *Developments in Ceramic Materials Research* Dena Rosslere,2007

Ceramics are refractory inorganic and non metallic materials They can be divided into two classes traditional and advanced Traditional ceramics include clay products silicate glass and cement while advanced ceramics consist of carbides SiC pure oxides Al₂O₃ nitrides Si₃N₄ non silicate glasses and many others Ceramics offer many advantages compared to other materials They are harder and stiffer than steel more heat and corrosion resistant than metals or polymers less dense than most metals and their alloys and their raw materials are both plentiful and inexpensive Ceramic materials display a wide range of properties which facilitate their use in many different product areas This new book presents leading edge research in this field from around the world *Spectroscopy of Solids Containing Rare Earth Ions* A. A. Kaplyanskii,Roger M. Macfarlane,1987 Spectroscopy of Crystals Containing Rare Earth Ions contains chapters on some key problems selected from a broad range of spectroscopic studies of RE activated solids including both crystalline and glassy materials Progress in crystal field theory is surveyed an area which is basic to our understanding of the energy levels The treatment of dynamical properties includes studies of coherence phenomena in isolated ions energy transfer between ions and co operative phenomena associated with ion ion and ion lattice interactions In addition the role of electron spins and nuclear spins is studied by light scattering and double resonance techniques The presence of inhomogeneous broadening of spectral lines is observed and studied in many contexts leading to new insights into general problems of the disordered state Considerable attention is devoted to describing new experimental techniques whose development is of prime importance for progress in

the spectroscopy of RE activated solids Many of these rely on the development and application of tunable lasers At the moment this is a very active field of spectroscopy with more exciting developments likely to occur in the future

Luminescence of Molecules and Crystals M. D. Galanin,1996 The author attempts to present in a condensed form the fundamentals of the physics of luminescence He presents his own views on the subject The book is divided into the following main sections Physics Briefs ,1991 *Fundamentals of Femtosecond Optics* S A Kozlov,V V Samartsev,2013-05-22

Femtosecond optics involves the study of ultra short pulses of light Understanding the behaviour of these light pulses makes it possible to develop ultra fast lasers with a wide range of applications in such areas as medical imaging chemical analysis and micro machining Written by two leading experts in the field this book reviews the theory of the interaction of femtosecond light pulses with matter femtosecond lasers and laser systems and the principles of femtosecond coherent spectroscopy of impurity amorphous media reviews the theory of the interaction of femtosecond light pulses with matter Discusses femtosecond lasers and laser systems Considers the principles of femtosecond coherent spectroscopy of impurity amorphous media **Nonlinear Optics and Acoustics of Fluids** F. V. Bunkin,1989 **Photonics Spectra** ,1991

Oceanic Remote Sensing F. V. Bunkin,K. I. Voli□a□k,1987 *Physical Processes in Low-temperature Gas-dynamic Lasers* V. K. Konyukhov,1990 Translated from the Russian language version published in 1988 Nauka Moscow Part 1 consists of three papers on topics in vibrationally nonequilibrium processes in molecular lasers The five papers in Part 2 address topics in rotational and spin nonequilibrium processes in gaseous media Annotati *Cooperative Optical Nonlinearities in Tm:LiYF4* QiZe Shu,1996 **Resonant Heterogeneous Processes in a Laser Field** Vladimir Alekseevich Kravchenko,1989 **Laser Techniques for Investigation of Defects in Semiconductors and Dielectrics** A. A.

Manenkov,1988 Results are given from investigations of impurity accumulations in pure silicon and germanium crystals as well as ionisation processes of impurity centres in alkaline halide crystals activated by mercury like ions The photoexcitation mechanisms of non equilibrium carriers in wide band dielectrics are investigated together with photoexcitation mechanisms

Lasers and Excited States of Rare Earths Renata Reisfeld,Christian K. Jorgensen,2012-12-06 The possibility of stimulated light emission was discussed by Einstein in 1917 eight years before the quantum mechanical description of energy levels of many electron systems Though it is imperative to use samples having optical properties greatly different from the standard continuous spectrum of opaque objects black body radiation it is not always necessary to restrict the study to monatomic entities Thus spectral lines can be obtained in absorption and in emission from lanthanide compounds containing from one to thirteen 4f electrons going from trivalent cerium to ytterbium that are nearly as sharp as the ones from gaseous atoms However the presence of adjacent atoms modifies the simple picture of an isolated electron configuration and in particular it is possible to pump excited levels efficiently by energy transfer from species with intense absorption bands such as the inter shell transitions of other lanthanides and of thallium I lead II and bismuth III or the electron transfer bands of the

uranyl ion or other complexes On the other hand it is possible to diminish the multi phonon relaxation competing with sharp line luminescence by selecting vitreous or crystalline materials with low phonon energies Obviously one cannot circumvent the conservation of energy by lasers but they may have unprecedented consequences for the future by allowing nuclear fusion of light elements effects of non linear optics and time resolved spectroscopy besides the more conventional applications of coherent light beams with negligible angular extension

Lithography in Microelectronics T. M. Makhviladze, 1989 Translated from the Russian edition Nauka Publishing House 1987 Results are given from an experimental investigation of the kinetic principles of etching of polymer resists in low temperature plasma the processes of nonresistive ion lithography and modifications of electron resist films by med

Avalanche Upconversion in TM:LiYF₄, TM:YALO₃ and TM:YAG Hui Ni, 1994

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