

Mikhail A. Noginov

Solid-State Random Lasers



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Solid State Random Lasers

Rachel S Tattersall



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and Applications Majid Ebrahim-Zadeh, Irina T. Sorokina, 2008-01-02 Covering fundamental principles and the state of the art this is a collection of reviews from experts in mid infrared mid IR coherent sources Among the sources covered are optical parametric oscillators difference frequency generators and the most recent broadband crystalline quantum cascade and fiber lasers The authors show how advances in mid IR science and technology make these sources indispensable for a variety of applications Biophotonics: Spectroscopy, Imaging, Sensing, and Manipulation Baldassare Di Bartolo, John

Collins,2010-12-14 This volume describes an impressive array of the current photonic related technologies being used in the investigation of biological systems The topics include various types of microscopy fluorescence correlation microscopy two photon microscopy sensitive detection of biological molecules nano surgery techniques fluorescence resonance energy transfer nano plasmonics terahertz spectroscopy and photosynthetic energy conversion The emphasis is on the physical principles behind each technique and on examining the advantages and limitations of each The book begins with an overview by Paras Prasad a leader in the field of biophotonics of several important optical techniques currently used for studying biological systems In the subsequent chapters these techniques are discussed in depth providing the reader with a detailed understanding of the basic physical principles at work An excellent treatment of terahertz spectroscopy demonstrates how photonics is being extended beyond the visible region Recent results in the use of femtosecond lasers as a tool to porate cell walls demonstrate that the manipulation of light can be used as a tool for the study and the treatment of biological systems The field of Bio photonics is broad and still growing so cannot be covered comprehensively in one volume But here the reader will find an introduction to some of the major tools used for studying biological systems and at the same time a detailed first principles treatment of the physics behind these tools Advanced Solid State Photonics ,2004 Laser Crystals, Glasses, and Nonlinear Materials Growth and Characterization Yehoshua Y. Kalisky,Society of Photo-optical Instrumentation Engineers,2003 **Summaries of Papers Presented at the Quantum Electronics and Laser Science Conference** ,2005 *Complex Mediums* ,2005 **Annual International Conference on Solid State Lasers for Application to Inertial Confinement Fusion** ,1997 **JJAP Letters** ,2003 **Japanese Journal of Applied Physics** ,2003 **Optics Letters** ,2008 Complex Photonic Media Graeme Dewar,2006 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature *Thermal Processes Using Attosecond Laser Pulses* Mirosław Kozłowski,Janina Marciak-Kozłowska,2006-05-17 This book contains a study of the thermal processes initiated by attosecond laser pulses Considering the existence of the experimental evidence for the trains of the attosecond laser pulses we developed the theoretical framework for attophysics i e physics of phenomena with time duration in the attosecond domain This time domain is concerned with phenomena whose duration is much shorter than the relaxation time for atomic molecular and nanoparticles scales *From Nanopowders to Functional Materials* Radu Robert Piticescu,Witold Łojkowski,John R. Blizzard,2005 Research and development in the whole area of nanomaterials including thin films nanowires nanocrystals nano composites and nanostructured bulk materials continues to increase year by year More and more attention is being focused on research which will permit greater control of structures at the nanometer level in order to ensure that the desired functional properties can be obtained **Postconference Digest** ,2004 **Chemical Abstracts** ,2002 **High Power Diode Lasers** Friedrich Bachmann,Peter Loosen,Reinhart Poprawe,2007-03-12 The book summarizes the work and the results of a five year government funded research project as well as subsequent research

results about high power diode laser systems and their application in the field of materials processing The entire technology chain starting from the semiconductor technology over cooling mounting and assembly beam shaping and system technology down to the applications in processing of several kinds of materials metals polymers are treated in the book Theoretical models a wide field of important parameters and practical hints and tips are provided The book is the most extensive work on high power diode laser systems and materials processing applications Proceedings of the Indian National Science Academy Indian National Science Academy,1971

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