



Solid State Random Lasers

Lingjun Ying



Solid State Random Lasers:

Solid-State Random Lasers Mikhail Noginov, 2005-08-17 Random lasers are the simplest sources of lasers since they exhibit stimulated emission without a cavity with the feedback provided by scattering in a gain medium First proposed in the late 60 s random lasers have grown into a large research field This book reviews the history and the state of the art of random lasers providing an outline of the basic models explaining their behavior and describing the recent advances in the field The major focus is solid state random lasers however random lasers based on liquid dyes with scatterers are also briefly treated Written with mostly self contained chapters Solid State Random Lasers gives scientists or engineers interested in a particular aspect direct access to the relevant information Researchers entering the field of random lasers will find in the book an excellent overview while scientists already working in the field can use the book as a reference source

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Solid-State Random Lasers Mikhail Noginov, 2006-07-04 Random lasers are the simplest sources of stimulated emission without cavity with the feedback provided by scattering in a gain medium First proposed in the late 1960s random lasers have grown to a large research field This book reviews the history and the state of the art of random lasers provides an outline of the basic models describing their behavior and describes the recent advances in the field The major focus of the book is on solid state random lasers However it also briefly describes random lasers based on liquid dyes with scatterers The chapters of the book are almost independent of each other So the scientists or engineers interested in any particular aspect of random lasers can read directly the relevant section Researchers entering the field of random lasers will find in the book an overview of the field of study Scientists working in the field can use the book as a reference source

Mid-Infrared Coherent Sources 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

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