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Solid-State Lasers for Materials Processing

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Solidstate Lasers For Materials Procebing Fundamental Relations And Technical Realizations

Ralf Leutz,Akio Suzuki



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Solid-State Lasers for Materials Processing Reinhard Iffländer, 2012-11-13 From the reviews Takes the reader on a journey that covers all the basic science and engineering related to the topic of developing a solid state laser for common materials processing problems Entrants to the field will certainly find it a book to keep for future reference Optics Photonic News

Fundamentals of Semiconductor Lasers Takahiro Numai, 2006-05-10 Fundamentals of Semiconductor Lasers explains the physics and fundamental characteristics of semiconductor lasers with regard to systems applications The detailed and comprehensive presentation is unique in that it encourages the reader to consider different semiconductor lasers from different angles Emphasis is placed on recognizing common concepts such operating principles and structure and solving problems based on individual situations The treatment is enhanced by an historical account of advances in semiconductor lasers over the years discussing both those ideas that have persisted over the years and those that have faded out The first four chapters cover the basics of semiconductors including band structures optical transitions optical waveguides and optical resonators The remaining chapters discuss operating principles and basic characteristics of semiconductor lasers and advanced topics including dynamic single mode lasers quantum well lasers and control of spontaneous emission The reader need only be familiar with undergraduate level electromagnetism and quantum mechanics After reading this book the student will be able to think critically about semiconductor lasers and be able to read and understand journal papers in the field This book will be essential to any advanced undergraduate or graduate student of semiconductor lasers and any professional physicist or engineer looking for a good overview of the subject

Optical Imaging and Microscopy Peter Török, Fu-Jen Kao, 2013-06-05 The motivation to collect contributions from a wide variety of subjects in contemporary optics centered around optical imaging originates from two ideas First it is easy to recognise that certain fields of contemporary optics have been developing in quite a parallel manner Sometimes workers of the different fields discover each other's contributions but mostly they do not One of our major goals is to show how closely these contributions are interrelated Such an example is the development of scanning confocal optical microscopy and optical data storage In the former imaging in the classical sense occurs by scanning a tightly focused laser beam over the sample In optical data storage imaging does not occur as the aim is to detect pits rather than to image them Nevertheless the optical systems of these two arrangements have striking resemblance and hence their governing equations are practically the same The second motivation of this book is to collect contributions from imaging related subjects that were not previously published in this form or they are difficult to access Such examples are a chapter on white light interferometry surface plasmon microscopy or the

characterisation of high numerical aperture microscope objective lenses We are extremely pleased that we have contributions in this book from the international leaders of individual fields It has been our privilege to work with these authors and we would like to take this opportunity to thank them all **Optical Interference Coatings** Norbert Kaiser, Hans K. Pulker, 2013-06-29 Interference coatings are an essential part of modern optics This book is designed to give a concise but complete overview of the field with contributions written by leading experts in the various areas Topics include design materials film growth deposition including large area characterization and monitoring and mechanical stress The authors also describe applications in astronomy microcomponents DUV VUV EUV X ultrafast optics displays and ultrasensitive fluorescence Furthermore laser resistant coatings and coatings for free electron lasers and plastic optics are covered The book concludes with chapters on photonic structures as interference devices and on the brilliant world of natural coatings

Nonimaging Fresnel Lenses Ralf Leutz, Akio Suzuki, 2012-12-06 Nonimaging Fresnel Lenses Design and Performance of Solar Concentrators what are we talking about It is easy to forget that you dear reader may not be one of those who work in exactly the same field as we do nonimaging optics for the concentration of sunlight You may be a researcher in some optical science interested in the core subject of this book the world's first practical design of a nonimaging Fresnel lens concentrator You may not be too excited about the collection of solar energy but you would want a full description of the optical performance of the lens Which you will get mostly in terms of nonimaging optics complete with test results and set against the competition of imaging Fresnel lenses and mirror based imaging and nonimaging concentrators If you are a solar energy professional you are likely to be interested in reading why nonimaging optics and solar energy collection go together so well They do so because the concentration of solar energy does not demand imaging qualities but instead requires flexible designs of highly uniform flux concentrators coping with solar disk size solar spectrum and tracking errors Nonimaging optics has been developed to perfection since its discovery in 1965 in dealing with solar power conversion Much of this experience is useful in nonimaging optical design in other fields where the markets already are more rewarding than in solar power generation such as optoelectronics **Mathematical Methods of Quantum Optics** Ravinder R. Puri, 2012-11-02

This book is intended to provide a much needed systematic exposition of the mathematical methods of quantum optics something that is not found in existing books It is primarily addressed to researchers who are new to the field The emphasis therefore is on a simple and self contained yet concise presentation It provides a unified view of the concepts and the methods of quantum optics and aims to prepare a reader to handle specific situations A number of formulae scattered throughout the scientific literature are also brought together in a natural manner The broad plan of the book is to introduce first the basic physics and mathematical concepts then to apply them to construct the model Hamiltonians of the atom field interaction and the master equation for an atom field system interacting with the environment and to analyze the equations so obtained A brief description of the contents of the chapters is as follows **Nano-Optics** Satoshi Kawata, Motoichi

technologies The editors Hans J Coufal IBM Demetri Psaltis CalTech and Glenn Sincerbox University of Arizona together with leading experts in this area of research from both academic research and industry bring together the latest knowledge on this technique The book starts with an introduction on the history and fundamentals multiplexing methods and noise sources The following chapters describe in detail recording media components channels platforms for demonstration and competing technologies such as classical hard disks or optical disks More than 700 references make this book the ultimate source of information for the years to come The book is intended for physicists optical engineers and executives alike Laser Processing of Engineering Materials John Ion,2005-03-22 The complete guide to understanding and using lasers in material processing Lasers are now an integral part of modern society providing extraordinary opportunities for innovation in an ever widening range of material processing and manufacturing applications The study of laser material processing is a core element of many materials and manufacturing courses at undergraduate and postgraduate level As a consequence there is now a vast amount of research on the theory and application of lasers to be absorbed by students industrial researchers practising engineers and production managers Written by an acknowledged expert in the field with over twenty years experience in laser processing John Ion distils cutting edge information and research into a single key text Essential for anyone studying or working with lasers Laser Processing of Engineering Materials provides a clear explanation of the underlying principles including physics chemistry and materials science along with a framework of available laser processes and their distinguishing features and variables This book delivers the knowledge needed to understand and apply lasers to the processing of engineering materials and is highly recommended as a valuable guide to this revolutionary manufacturing technology The first single volume text that treats this core engineering subject in a systematic manner Covers the principles practice and application of lasers in all contemporary industrial processes packed with examples materials data and analysis and modelling techniques Lasers Charles Blain,2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject author and titles indexes **Photonic Crystals** Kuon Inoue,Kazuo Ohtaka,2004-07-20 Photonic crystals are a very hot topic in photonics The basics fabrication application and new theoretical developments in the field of photonic crystals are presented in a comprehensive way together with a survey of the advanced state of the art report **Ultrafast Optics IV** Ferenc Krausz,Georg Korn,Paul Corkum,Ian A Walmsley,2012-08-10 The papers in this volume cover the major areas of research activity in the field of ultrafast optics at the present time and they have been selected to provide an overview of the current state of the art The purview of the field is the methods for the generation amplification and characterization of electromagnetic pulses with durations from the pico to the attosecond range as well as the technical issues surrounding the application of these pulses in physics chemistry and biology The contributions were solicited from the participants in the Ultrafast Optics IV Conference held in Vienna Austria in

June 2003 The purpose of the conference is similar to that of this book to provide a forum for the latest advances in ultrafast optical technology Ultrafast light sources provide a means to observe and manipulate events on the scale of atomic and molecular dynamics This is possible either through appropriate shaping of the time dependent electric field or through the application of fields whose strength is comparable to the binding forces of the electrons in atoms and molecules Recent advances discussed here include the generation of pulses shorter than two optical cycles and the ability to measure and to shape them in all degrees of freedom with unprecedented precision and to amplify them to the Zettawatt cm¹⁰ W cm range

Microoptics Karl-Heinz Brenner, Jürgen Jahns, 2013-03-20 Microoptics is still an emerging field with a huge potential for a large number of applications This monograph brings together the most recent developments in order to give a broad overview

Progress in Nano-Electro Optics III Motoichi Ohtsu, 2005-12-17 Near field optical recording is a promising way to realize a recording density of over 1 Tb/in² In this chapter we focused on the near field optical head which is a key device for near field optical recording First we explained the technical issues regarding the near field optical head and introduced some solutions to these issues We focused on a highly efficient near field optical head that uses a wedge shaped metallic plate and described its optical properties based on a simulation using a finite difference time domain method The simulation results confirmed that a strong optical near field is generated at the apex of the metallic plate when a plasmon is excited in the metallic plate When a TbFeCo recording medium was placed 10 nm from the near field optical head the size of the optical spot was 30 nm which corresponds to an areal recording density of approximately 1 Tb/in² The efficiency was 20% if we assume that the incident beam was a Gaussian beam with a full width at half maximum of 1 μm Furthermore we discussed an optical head using two metallic plates We confirmed through our simulation that a highly localized optical near field was generated at the gap when the plasmon was excited in the metallic plates The distribution was 5 nm by 5 nm when the two apices were separated by 5 nm

Optical Superresolution David Mendlovic, 2012-12-06 This book explores ways to improve the classical resolution limits of an imaging system Various approaches dealing with exceeding the limitations of the lens aperture the pixel size in the camera and the noise generated at the detector are presented and analyzed The book starts by presenting the theoretical foundations and by introducing the background and the related terms and then proceeds into the desired system analysis Despite the fact that the book tends to provide the mathematical background required to follow the presented derivations it assumes that the reader has acquired a basic knowledge in optical Fourier processing If this is not the case we strongly advise using Goodman's book *Introduction to Fourier Optics* as mandatory prereading material The book is mainly intended for a graduated audience who may be researchers in an academy or engineers in the industry seeking information that may assist them in improving the performance of their electro optical system design The last chapter of the book is a more practical chapter that explores several industry related examples and applications that may use the superresolution techniques in real industrial electro optical systems The most important feature of this book is its

attempt to address an important subject that has not been addressed before the subject of resolution and imaging and to discuss techniques of how to exceed these classical limitations

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