

HANDBOOK OF MOLECULAR LASERS

EDITED BY
PETER H. CHEO

Handbook Of Molecular Lasers

Toshiaki Suhara



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Semiconductor Laser Fundamentals Toshiaki Suhara,2004-03-16 Ranging from fundamental theoretical concepts to advanced device technologies this reference text explores the engineering characteristics and performance of specific semiconductor lasers It defines key principles in electromagnetics optoelectronics and laser implementation for novel applications in optical communications storage processing measurement and sensing This text prepares students for advanced experimental and theoretical research in semiconductor laser technology and provides the only comprehensive systematic and concise description of semiconductor lasers available for an understanding of the physics and parameters of laser operation and function

Handbook of Laser Technology and Applications Chunlei Guo,2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser systems including the complete range of their technical applications The first volume outlines the fundamental components of lasers their properties and working principles The second volume gives exhaustive coverage of all major categories of lasers from solid state and semiconductor diode to fiber waveguide gas chemical and dye lasers The third volume covers modern applications in engineering and technology including all new and updated case studies spanning telecommunications and data storage to medicine optical measurement defense and security nanomaterials processing and characterization

Handbook of Laser Science and Technology Marvin J. Weber,1982-10-21 **Lasers-Induced Plasmas and Applications** Leon J. Radziemski,2020-09-11 This book discusses the physics of plasma initiation and reviews the features of dissipating propagating plasmas It deals with advances in diagnostics for high energy laser fusion plasmas The book reviews the basic physical processes plasma characteristics of the continuous optical discharge

Ultrafast Lasers Martin E. Fermann,Almantas Galvanauskas,Gregg Sucha,2002-10-25 Covering high energy ultrafast amplifiers and solid state fiber and diode lasers this reference examines recent developments in high speed laser technology It presents a comprehensive survey of ultrafast laser technology its applications and future trends in various scientific and industrial areas Topics include micromachining applications for metals dielectrics and biological tissue advanced electronics and semiconductor processing optical coherence tomography multiphoton microscopy optical sampling and scanning THz generation and imaging optical communication systems absolute phase control of optical signals and more

Laser Applications in Physical Chemistry D.K. Evans,2020-11-26 This book provides an introduction on applications of lasers in Chemistry It describes laser as a tool for chemistry the consideration involved in describing a laser beam and what happens to beam as it is propagated through a gas The book is useful for graduates and advanced undergraduates

Organic Field-Effect Transistors Zhenan Bao,Jason Locklin,2018-10-03 The remarkable development of organic thin film transistors OTFTs has led to their emerging use in active matrix flat panel displays radio frequency identification cards and sensors Exploring one class of OTFTs Organic Field Effect Transistors

provides a comprehensive multidisciplinary survey of the present theory charge transport studies synthetic methodology materials characterization and current applications of organic field effect transistors OFETs Covering various aspects of OFETs the book begins with a theoretical description of charge transport in organic semiconductors at the molecular level It then discusses the current understanding of charge transport in single crystal devices small molecules and oligomers conjugated polymer devices and charge injection issues in organic transistors After describing the design rationales and synthetic methodologies used for organic semiconductors and dielectric materials the book provides an overview of a variety of characterization techniques used to probe interfacial ordering microstructure molecular packing and orientation crucial to device performance It also describes the different processing techniques for molecules deposited by vacuum and solution followed by current technological examples that employ OTFTs in their operation Featuring respected contributors from around the world this thorough up to date volume presents both the theory behind OFETs and the latest applications of this promising technology

Light Propagation in Periodic Media Michel Neviere, Evgeny Popov, 2018-10-03 Based on more than 30 years of research on differential theories of gratings this book describes developments in differential theory for applications in spectroscopy acoustics X ray instrumentation optical communication information processing photolithography high power lasers high precision engineering and astronomy Introducing the Fast Fourier Factorization approach to improve the convergence of a truncated series the book examines multilayers stacked gratings crossed gratings photonic crystals and isotropic and anisotropic materials techniques and examples in grating design and Maxwell equations in a truncated Fourier space

Lens Design Milton Laikin, 2018-10-03 There is no shortage of lens optimization software on the market to deal with today's complex optical systems for all sorts of custom and standardized applications But all of these software packages share one critical flaw you still have to design a starting solution Continuing the bestselling tradition of the author's previous books Lens Design Fourth Edition is still the most complete and reliable guide for detailed design information and procedures for a wide range of optical systems Milton Laikin draws on his varied and extensive experience ranging from innovative cinematographic and special effects optical systems to infrared and underwater lens systems to cover a vast range of special purpose optical systems and their detailed design and analysis This edition has been updated to replace obsolete glass types and now includes several new designs and sections on stabilized systems the human eye spectrographic systems and diffractive systems A new CD ROM accompanies this edition offering extensive lens prescription data and executable ZEMAX files corresponding to figures in the text Filled with sage advice and completely illustrated Lens Design Fourth Edition supplies hands on guidance for the initial design and final optimization for a plethora of commercial consumer and specialized optical systems

Entropy and Information Optics Francis T.S. Yu, 2000-03-17 Identifies the relationship between entropy and information optics as the impetus for the research and development of high speed high data rate and high capacity communication systems Examines computing pattern recognition and wavelet transformation

Optical

Waveguides María L. Calvo, Vasudevan Lakshminarayanan, 2018-10-03 Although the theory and principles of optical waveguides have been established for more than a century the technologies have only been realized in recent decades Optical Waveguides From Theory to Applied Technologies combines the most relevant aspects of waveguide theory with the study of current detailed waveguiding technologies in particular photonic devices telecommunication applications and biomedical optics With self contained chapters written by well known specialists the book features both fundamentals and applications The first three chapters examine the theoretical foundations and bases of planar optical waveguides as well as critical optical properties such as birefringence and nonlinear optical phenomena The next several chapters focus on contemporary waveguiding technologies that include photonic devices and telecommunications The book concludes with discussions on additional technological applications including biomedical optical waveguides and the potential of neutron waveguides As optical waveguides play an increasing part in modern technology photonics will become to the 21st century what electronics were to the 20th century Offering both novel insights for experienced professionals and introductory material for novices this book facilitates a better understanding of the new information era the photonics century

Passive Micro-Optical Alignment Methods Robert A. Boudreau, Sharon M. Boudreau, 2018-10-03 The most expensive phase in the manufacture of micro optical components and fiber optics is also one of the most performance critical optical alignment of the components The increasing degree of miniaturization makes this an especially challenging task Active alignment methods result in higher costs and awkward processes and for some applications they simply are not possible Passive Micro Optical Alignment Methods introduces the passive alignment methods that are currently available and illustrates them with many examples references and critiques The first book dedicated to passive alignment it begins with an overview of the current activities requirements and general results of passive optical alignments followed by three sections of in depth analysis The first of these discusses mechanical passive alignment highlighting silicon waferboard solder and Jitney technologies as well as application of mechanical alignment to 3D free space interconnects The next section describes the various visual alignment techniques applied to Planar Lightwave Circuits PLCs and low cost plastic and surface mount packaging The final section details various utilities that aid passive alignment and their resulting tradeoffs and demonstrates Monte Carlo analysis to evaluate the potential of a given method Passive Micro Optical Alignment Methods provides the tools necessary to meet the challenge of precision and low cost alignment for applications that require micron or sub micron tolerance

Electromagnetic Theory and Applications for Photonic Crystals Kiyotoshi Yasumoto, 2018-10-03 Photonic technology promises much faster computing massive parallel processing and an evolutionary step in the digital age The search continues for devices that will enable this paradigm and these devices will be based on photonic crystals Modeling is a key process in developing crystals with the desired characteristics and performance and Electromagnetic Theory and Applications for Photonic Crystals provides the electromagnetic theoretical models that can be effectively applied to

modeling photonic crystals and related optical devices The book supplies eight self contained chapters that detail various analytical numerical and computational approaches to the modeling of scattering and guiding problems For each model the chapter begins with a brief introduction detailed formulations of periodic structures and photonic crystals and practical applications to photonic crystal devices Expert contributors discuss the scattering matrix method multipole theory of scattering and propagation model of layered periodic arrays for photonic crystals the multiple multipole program the mode matching method for periodic metallic structures the method of lines the finite difference frequency domain technique and the finite difference time domain technique Based on original research and application efforts Electromagnetic Theory and Applications for Photonic Crystals supplies a broad array of practical tools for analyzing and designing devices that will form the basis for a new age in computing

Visual Information Representation, Communication, and Image Processing

Ya-Qin Zhang,1999-05-25 Discusses recent advances in the related technologies of multimedia computers videophones video over Internet HDTV digital satellite TV and interactive computer games The text analyzes ways of achieving more effective navigation techniques data management functions and higher throughput networking It synthesizes data on visual information venues tracking the enormous commercial potential for new components and compatible systems

A

Beginner's Guide to Lasers and Their Applications, Part 1 Dhruba J. Biswas,2023-05-12 This two volume book provides an enriching insight into the laser covering different types of lasers the basic science behind the technology their role at the cutting edge of current scientific research and their wide ranging applications With just high school physics as a prerequisite and favoring qualitative yet scientifically sound explanations over high level mathematics this book is aimed at a broad spectrum of readers in physics chemistry engineering medicine and biology Its engaging and lucid presentation is enhanced with plenty of illustrations making the world of the laser accessible to undergraduate students in the sciences and any other inquisitive readers with high school physics under their belts Furthermore the text is often laced with anecdotes picked from history that are bound to pique the minds of the readers It is ideal for self study or as a complement to courses on optics and optoelectronics This volume Part 1 of 2 explains the fundamentals of optics what a laser is how it works and what is unique about the light it emits from fundamental quantum theory through population inversion and cavity to common laser types It is followed by Part 2 which depicts the many advances in science enabled by the laser including spectroscopy nonlinear optics optical cooling and trapping and optical tweezers among many others and provides a glimpse into the ways that the laser affects our lives via its uses in medicine manufacturing the nuclear industry energy defence communication ranging pollution monitoring art conservation fashion beauty and entertainment

The Physics and Technology of Laser Resonators

Denis Hall,2020-08-26 Comprehensive yet concise The Physics and Technology of Laser Resonators presents both the fundamentals and latest developments in laser resonator technology including specific case studies The book covers various types of resonators including unstable ring laser and multifold laser It also discusses numerical resonator calculations and

laser beam analysis This reference will be of value and interest both to newcomers to the field and to professional engineers wishing to update their knowledge *Engineering Thin Films and Nanostructures with Ion Beams* Emile

Knystautas, 2018-10-03 While ion beam techniques have been used to create thin films in the semiconductor industry for several decades these methods have been too costly for other surface treatment applications However as manufacturing devices become increasingly smaller the use of a directed energy ion beam is finding novel industrial applications that require the custom tailoring of new materials and devices including magnetic storage devices photonics opto electronics and molecular transport *Engineering Thin Films and Nanostructures with Ion Beams* offers a thorough narrative of the recent advances that make this technology relevant to current and future applications Featuring internationally recognized researchers the book compiles their expertise in a multidimensional source that Highlights the mechanisms and visual evidence of the effects of single ion impacts on metallic surfaces Considers how ion beam techniques can help achieve higher disk drive densities Introduces gas cluster ion beam technology and reviews its precedents Explains how ion beams are used to aggregate metals and semiconductors into nanoclusters with nonlinear optical properties Addresses current challenges in building equipment needed to produce nanostructures in an industrial setting Examines the combination of ion beam techniques particularly with physical vapor deposition Delineates the fabrication of nanopillars nanoflowers and interconnected nanochannels in three dimensions by using atomic shadowing techniques Illustrates the production of nanopores of varying dimensions in polymer films alloys and superconductors using ion beam irradiation Shows how fingerprints can be made more reliable as forensic evidence by recoil mixing them into the substrate using ion beams From the basics of the ion beam modification of materials to state of the art applications *Engineering Th **Principles of Lasers***

Orazio Svelto, 2013-04-17 This book is motivated by the very favorable reception given to the previous editions as well as by the considerable range of new developments in the laser field since the publication of the third edition in 1989 These new developments include among others quantum well and multiple quantum well lasers diode pumped solid state lasers new concepts for both stable and unstable resonators femtosecond lasers ultra high brightness lasers etc This edition thus represents a radically revised version of the preceding edition amounting essentially to a new book in its own right However the basic aim has remained the same namely to provide a broad and unified description of laser behavior at the simplest level which is compatible with a correct physical understanding The book is therefore intended as a textbook for a senior level or first year graduate course and or as a reference book The most relevant additions or changes to this edition can be summarized as follows 1 A much more detailed description of Amplified Spontaneous Emission has been given Chapter 2 and a novel simplified treatment of this phenomenon both for homogeneous and inhomogeneous lines has been introduced Appendix C 2 A major fraction of a new chapter Chapter 3 is dedicated to the interaction of radiation with semiconductor media either in a bulk form or in a quantum confined structure quantum well quantum wire and quantum dot 3

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