

OPTICAL SCIENCES

A. Krier (Ed.)

# Mid-infrared Semiconductor Optoelectronics

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# Mid Infrared Semiconductor Optoelectronics Springer Series In Optical Sciences

**Julia Schneider**



## **Mid Infrared Semiconductor Optoelectronics Springer Series In Optical Sciences:**

Mid-infrared Semiconductor Optoelectronics Anthony Krier, 2007-05-22 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area the basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out the different lasers used as sources for mid infrared technology are considered recent work in detectors is reviewed the last part of the book is concerned with applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science

*Mid-infrared Semiconductor Optoelectronics* ,2006 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area The basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out The different lasers used as sources for mid infrared technology are considered Recent work in detectors is reviewed and the last part of the book is concerned with applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science

**Infrared Detectors** Antonio Rogalski, 2010-11-15 Completely revised and reorganized while retaining the approachable style of the first edition Infrared Detectors Second Edition addresses the latest developments in the science and technology of infrared IR detection Antoni Rogalski an internationally recognized pioneer in the field covers the comprehensive range of subjects necessary to un **Photonic Crystals** Alessandro Massaro, 2012-03-30 The second volume of the book concerns the characterization approach of photonic crystals photonic crystal lasers photonic crystal waveguides and plasmonics including the introduction of innovative systems and materials Photonic crystal materials promises to enable all optical computer circuits and could also be used to make ultra low power light sources Researchers have studied lasers from microscopic cavities in photonic crystals that act as reflectors to intensify the collisions between photons and atoms that lead to lasing but these lasers have been optically pumped meaning they are driven by other lasers Moreover the physical principles behind the phenomenon of slow light in photonic crystal waveguides as well as their practical limitations are discussed This includes the nature of slow light propagation its bandwidth limitation coupling of modes and particular kind

terminating photonic crystals with metal surfaces allowing to propagate in surface plasmon polariton waves The goal of the second volume is to provide an overview about the listed issues

**Quantum Photonics: Pioneering Advances and Emerging Applications** Robert W. Boyd, Svetlana G. Lukishova, Victor N. Zadkov, 2019-02-19 This book brings together reviews by internationally renowned experts on quantum optics and photonics It describes novel experiments at the limit of single photons and presents advances in this emerging research area It also includes reprints and historical descriptions of some of the first pioneering experiments at a single photon level and nonlinear optics performed before the inception of lasers and modern light detectors often with the human eye serving as a single photon detector The book comprises 19 chapters 10 of which describe modern quantum photonics results including single photon sources direct measurement of the photon's spatial wave function nonlinear interactions and non-classical light nanophotonics for room temperature single photon sources time multiplexed methods for optical quantum information processing the role of photon statistics in visual perception light by light coherent control using metamaterials nonlinear nanoplasmonics nonlinear polarization optics and ultrafast nonlinear optics in the mid infrared

**MID-INFRARED FIBER PHOTONICS** Stuart Jackson, Real Vallee, Martin Bernier, 2021-11-26 Mid Infrared Fibre Photonics Glass Materials Fibre Fabrication and Processing Laser Sources and Devices combines the latest glass chemistry fibre fabrication and post processing techniques to provide a comprehensive reference on the fundamental science and latest research in fibre photonics for the mid infrared range The book systematically reviews the key glass materials systems including fluorides chalcogenides and oxides Each materials chapter includes discussion of composition structure thermal optical and mechanical properties extrinsic and intrinsic loss mechanisms materials preparation and purification techniques Then Mid Infrared Fibre Photonics Glass Materials Fibre Fabrication and Processing Laser Sources and Devices covers the most relevant fabrication post processing and spectroscopy techniques Fibre sources are also addressed including fibre sources for continuous wave emission pulsed emission and broadband emission The book concludes with a brief overview of important medical sensing and defence applications Systematic coverage of the most relevant materials for mid infrared fibre photonics including discussion of composition structure thermal optical and mechanical properties loss mechanisms materials preparation and purification techniques Reviews the key fabrication and processing techniques of mid infrared fibre technologies Addresses the important medical sensing and defence applications

**Modern Developments in X-Ray and Neutron Optics** Alexei Erko, Mourad Idir, Thomas Krist, Alan G. Michette, 2008-04-14 This volume describes modern developments in reflective refractive and diffractive optics for short wavelength radiation It also covers recent theoretical approaches to modelling and ray tracing the x ray and neutron optical systems It is based on the joint research activities of specialists in x ray and neutron optics working together under the framework of the European Programme for Cooperation in Science and Technology COST Action P7 in the period 2002-2006

**Functional Materials for Sustainable Energy Applications** J A Kilner, S J Skinner, S J C Irvine, P P

Edwards,2012-09-28 Global demand for low cost efficient and sustainable energy production is ever increasing Driven by recent discoveries and innovation in the science and technology of materials applications based on functional materials are becoming increasingly important Functional materials for sustainable energy applications provides an essential guide to the development and application of these materials in sustainable energy production Part one reviews functional materials for solar power including silicon based thin film and dye sensitized photovoltaic solar cells thermophotovoltaic device modelling and photoelectrochemical cells Part two focuses on functional materials for hydrogen production and storage Functional materials for fuel cells are then explored in part three where developments in membranes catalysts and membrane electrode assemblies for polymer electrolyte and direct methanol fuel cells are discussed alongside electrolytes and ion conductors novel cathodes anodes thin films and proton conductors for solid oxide fuel cells Part four considers functional materials for demand reduction and energy storage before the book concludes in part five with an investigation into computer simulation studies of functional materials With its distinguished editors and international team of expert contributors Functional materials for sustainable energy applications is an indispensable tool for anyone involved in the research development manufacture and application of materials for sustainable energy production including materials engineers scientists and academics in the rapidly developing interdisciplinary field of sustainable energy An essential guide to the development and application of functional materials in sustainable energy production Reviews functional materials for solar power Focuses on functional materials for hydrogen production and storage fuel cells demand reduction and energy storage **Laser** Fritz Kurt Kneubühl,Markus Werner Sigrist,2008-06-12 Der fundierte Einstieg in Theorie und Anwendungen des Lasers Das Buch enth lt eine ausf hrliche Beschreibung und Daten aller Lasertypen mit Hinweisen auf die vielf ltigen Anwendungen die von der Materialbearbeitung Holographie Spektroskopie bis zur Medizin reichen Neben den klassischen Lasern wie Rubin oder CO2 Laser werden in dieser Neuauflage auch aktuelle Entwicklungen wie z B Quantenkaskadenlaser Dioden gepumpte Festk rperlaser und Femtosekundenlaser behandelt Die 7 Auflage wurde in wesentlichen Teilen bearbeitet und erg nzt Insbesondere die technischen Aspekte wurden auf den neuesten Stand gebracht **2D Excitonic Materials and Devices** ,2023-11-23 Semiconductors and Semimetals series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the latest information on cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike Vertical External Cavity Surface Emitting Lasers Michael Jetter,Peter Michler,2021-09-16 Vertical External Cavity Surface Emitting Lasers Provides comprehensive coverage of the advancement of vertical external cavity surface emitting lasers Vertical external cavity surface emitting lasers VECSELs emit coherent light from the infrared to the visible spectral range with high power output Recent years have seen new device developments such as the mode locked integrated MIXSEL and the membrane external cavity surface emitting laser MECSEL expand the

application of VECSELs to include laser cooling spectroscopy telecommunications biophotonics and laser based displays and projectors In Vertical External Cavity Surface Emitting Lasers VECSEL Technology and Applications leading international research groups provide a comprehensive fully up to date account of all fundamental and technological aspects of vertical external cavity surface emitting lasers This unique book reviews the physics and technology of optically pumped disk lasers and discusses the latest developments of VECSEL devices in different wavelength ranges Topics include OP VECSEL physics continuous wave CW lasers frequency doubling carrier dynamics in SESAMs and characterization of nonlinear lensing in VECSEL gain samples This authoritative volume Summarizes new concepts of DBR free and MECSEL lasers for the first time Covers the mode locking concept and its application Provides an overview of the emerging concept of self mode locking Describes the development of next generation OPS laser products Vertical External Cavity Surface Emitting Lasers VECSEL Technology and Applications is an invaluable resource for laser specialists semiconductor physicists optical industry professionals spectroscopists telecommunications engineers and industrial physicists

**ECOS 2012 The 25th International Conference on Efficiency, Cost, Optimization and Simulation of Energy Conversion Systems and Processes (Perugia, June 26th-June 29th, 2012)** Umberto Desideri, Enrico Sciubba, Giampaolo Manfrida, 2012 The 8 volume set contains the Proceedings of the 25th ECOS 2012 International Conference Perugia Italy June 26th to June 29th 2012 ECOS is an acronym for Efficiency Cost Optimization and Simulation of energy conversion systems and processes summarizing the topics covered in ECOS Thermodynamics Heat and Mass Transfer Exergy and Second Law Analysis Process Integration and Heat Exchanger Networks Fluid Dynamics and Power Plant Components Fuel Cells Simulation of Energy Conversion Systems Renewable Energies Thermo Economic Analysis and Optimisation Combustion Chemical Reactors Carbon Capture and Sequestration Building Urban Complex Energy Systems Water Desalination and Use of Water Resources Energy Systems Environmental and Sustainability Issues System Operation Control Diagnosis and Prognosis Industrial Ecology *Optical Measurement Techniques* Kai-Erik Peiponen, Risto Myllylä, Alexander V. Priezzhev, 2009-02-12 Devoted to new optical measurement techniques in industry as well as the life sciences this book has a fresh perspective on the development of modern optical sensors which are essential for the control of parameters in industrial and biomedical applications **Surface Plasmon Nanophotonics** Mark L. Brongersma, Pieter G. Kik, 2007-09-18 This book discusses a new class of photonic devices known as surface plasmon nanophotonic structures The book highlights several exciting new discoveries while providing a clear discussion of the underlying physics the nanofabrication issues and the materials considerations involved in designing plasmonic devices with new functionality Chapters written by the leaders in the field of plasmonics provide a solid background to each topic **Semiconductor Lasers** Junji Ohtsubo, 2007-10-24

Preface for the second edition Chaos research in laser physics especially in semiconductor lasers has developed further even after completion of the first edition of this book in the late summer of 2004 and it is still growing rapidly For example various forms

of chaotic dynamics have been applied in newly developed semiconductor lasers such as in vertical cavity surface emitting semiconductor lasers and broad area semiconductor lasers. Chaotic dynamics plays an important role in these new lasers even for their solitary oscillations and control of the dynamics is currently an important issue for practical applications. Other significant advance has been made in the area of chaotic optical secure communications. Chaotic secure communications using existing public optical communications links have been tested and successful results have been obtained. In this second edition I have filled in the gaps in the explanation of chaotic laser dynamics in the previous edition and I have also added several important topics that have been developed recently. In particular a new chapter on laser stabilizations has been added and a number of misprints in the first edition have been corrected. I believe this book will be of interest not only to researchers in the field of laser chaos but also to those working in nonlinear science and technology.

Hamamatsu Spring 2007 Junji Ohtsubo

**Preface** The aim of this book is the description of the state of the art of chaos research in semiconductor lasers and their applications and the future perspective of this field.

**Progress in Nano-Electro-Optics V** Motoichi Ohtsu, 2007-01-10 Focusing on nanophotonics which has been proposed by M. Ohtsu in 1993, this volume begins with theories for operation principles of characteristic nanophotonic devices and continues with novel optical near field phenomena for fabricating nanophotonic devices. Further topics include unique properties of optical near fields and their applications to operating nanophotonic devices and nanophotonic information and communications systems that can overcome the integration density limit with ultra low power operation as well as unique functionalities. Taken as a whole, this overview will be a valuable resource for engineers and scientists working in the field of nano electro optics.

**Geometrical Charged-Particle Optics** Harald H. Rose, 2009 This resource covering all theoretical aspects of modern geometrical charged particle optics is aimed at anyone involved in the design of electron optical instruments and beam guiding systems for charged particles.

*Light Scattering by Systems of Particles* Adrian Doicu, Thomas Wriedt, Yuri A. Eremin, 2006-10-19 This book develops the theory of the null field method, also called T matrix method, covering almost all aspects and current applications. This book also incorporates FORTRAN programs and simulation results. Worked examples of the application of the FORTRAN programs show readers how to adapt or modify the programs for their specific application.

High-Efficient Low-Cost Photovoltaics Vesselinka Petrova-Koch, 2009 A bird's eye view of the developmental trends and problems of recent photovoltaics is presented. The worldwide effort to develop high efficiency low cost PV modules making use of most efficient solar cells and clever low cost solar concentrators is described.

*Light-Driven Alignment* Boris P. Antonyuk, 2009 This book deals with influencing the properties of solids by light driven electron transport. The theoretical basis of these effects, light driven ordering and self organisation as well as optical motors are presented. With light as a tool, new ways to produce materials are opened.

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