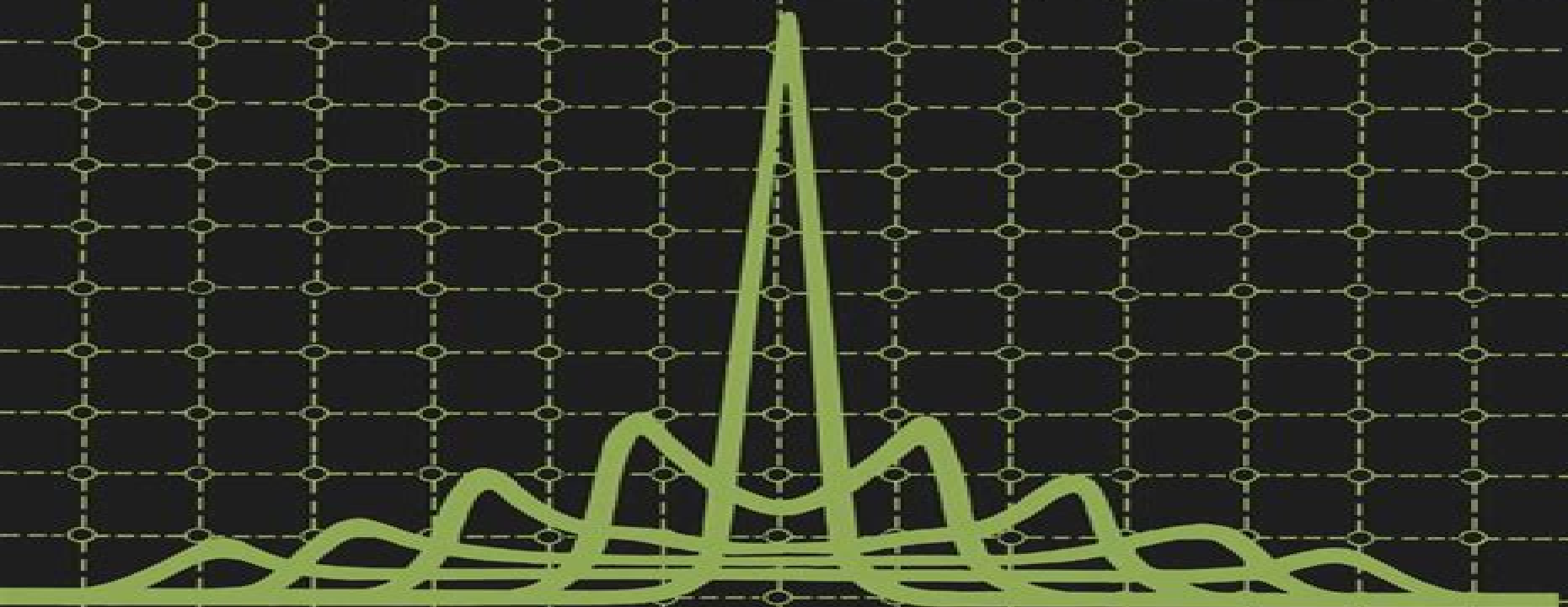


LONG-WAVELENGTH SEMICONDUCTOR LASERS

G.P. AGRAWAL
N.K. DUTTA



Long Wavelength Semiconductor Lasers

Kenichi Iga, Susumu Kinoshita



Long Wavelength Semiconductor Lasers:

Long-Wavelength Semiconductor Lasers Govind Agrawal, Niloy K. Dutta, 1986-12-31 Since its invention in 1962 the semiconductor laser has come a long way. Advances in material purity and epitaxial growth techniques have led to a variety of semiconductor lasers covering a wide wavelength range of 0.3–100 μm . The development during the 1970s of GaAs semiconductor lasers emitting in the near infrared region of 0.8–0.9 μm resulted in their use for the first generation of optical fiber communication systems. However, to take advantage of low losses in silica fibers occurring around 1.3 and 1.55 μm , the emphasis soon shifted toward long wavelength semiconductor lasers. The material system of choice in this wavelength range has been the quaternary alloy InGaAsP. During the last five years or so, the intense development effort devoted to InGaAsP lasers has resulted in a technology mature enough that lightwave transmission systems using InGaAsP lasers are currently being deployed throughout the world. This book is intended to provide a comprehensive account of long wavelength semiconductor lasers. Particular attention is paid to InGaAsP lasers, although we also consider semiconductor lasers operating at longer wavelengths. The objective is to provide an up-to-date understanding of semiconductor lasers while incorporating recent research results that are not yet available in the book form. Although InGaAsP lasers are often used as an example, the basic concepts discussed in this text apply to all semiconductor lasers irrespective of their wavelengths.

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Long-Wavelength Infrared Semiconductor Lasers Hong K. Choi, 2004-03-18 Long wavelength Infrared Semiconductor Lasers provides a comprehensive review of the current status of semiconductor coherent sources emitting in the mid to far infrared spectrum and their applications. It includes three topics not covered in any previous book: far infrared

emission from photo mixers as well as from hot hole lasers and InP based lasers emitting beyond two micrometers Semiconductor lasers emitting at more than two micrometers have many applications such as in trace gas analysis environmental monitoring and industrial process control Because of very rapid progress in recent years until this book no comprehensive information beyond scattered journal articles is available at present Semiconductor Lasers Govind P. Agrawal, Niloy K. Dutta, 2013-11-27 Since its invention in 1962 the semiconductor laser has come a long way Advances in material purity and epitaxial growth techniques have led to a variety of semiconductor lasers covering a wide wavelength range of 0.3 to 100 μm The development during the 1970s of GaAs semiconductor lasers emitting in the near infrared region of 0.8 to 0.9 μm resulted in their use for the first generation of optical fiber communication systems However to take advantage of low losses in silica fibers occurring around 1.3 and 1.55 μm the emphasis soon shifted toward long wavelength semiconductor lasers The material system of choice in this wavelength range has been the quaternary alloy InGaAsP During the last five years or so the intense development effort devoted to InGaAsP lasers has resulted in a technology mature enough that lightwave transmission systems using InGaAsP lasers are currently being deployed throughout the world This book is intended to provide a comprehensive account of long wave length semiconductor lasers Particular attention is paid to InGaAsP lasers although we also consider semiconductor lasers operating at longer wave lengths The objective is to provide an up to date understanding of semiconductor lasers while incorporating recent research results that are not yet available in the book form Although InGaAsP lasers are often used as an example the basic concepts discussed in this text apply to all semiconductor lasers irrespective of their wavelengths

Design and Fabrication of High Speed, Long Wavelength, Semiconductor Lasers John Gilmary Wasserbauer, 1994

Semiconductor Lasers for Long-wavelength Optical-fibre Communications Systems M. J. Adams, 1987

Using Band-filling to Understand Long-wavelength Semiconductor Lasers and Q-switching of Solid-state Lasers Yi-jen Tsou, 1993

InGaAsNSb Xiaoping Yang, 2002

Semiconductor Lasers II Eli Kapon, 1999-01-14 Judging from the impact it has on our everyday lives the semiconductor laser has emerged as perhaps the most important laser device currently in use This volume presents information on recent advances in materials and structures

Semiconductor Lasers Alexei Baranov, Eric Tournié, 2013-04-23 Semiconductor lasers have important applications in numerous fields including engineering biology chemistry and medicine They form the backbone of the optical telecommunications infrastructure supporting the internet and are used in information storage devices bar code scanners laser printers and many other everyday products

Semiconductor Lasers Fundamentals and applications is a comprehensive review of this vital technology Part one introduces the fundamentals of semiconductor lasers beginning with key principles before going on to discuss photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Part two then reviews applications of visible and near infrared emitting lasers Nonpolar and semipolar GaN based lasers advanced self assembled InAs quantum dot lasers and vertical cavity

surface emitting lasers are all considered in addition to semiconductor disk and hybrid silicon lasers Finally applications of mid and far infrared emitting lasers are the focus of part three Topics covered include GaSb based type I quantum well diode lasers interband cascade and terahertz quantum cascade lasers whispering gallery mode lasers and tunable mid infrared laser absorption spectroscopy With its distinguished editors and international team of expert contributors Semiconductor lasers is a valuable guide for all those involved in the design operation and application of these important lasers including laser and telecommunications engineers scientists working in biology and chemistry medical practitioners and academics working in this field Provides a comprehensive review of semiconductor lasers and their applications in engineering biology chemistry and medicine Discusses photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Reviews applications of visible and near infrared emitting lasers and mid and far infrared emitting lasers

Long-Wavelength Infrared Semiconductor Lasers Hong K Choi,2004 **Long Wavelength Infrared Emitters Based on Quantum Wells and Superlattices** Manfred Helm,2000-10-31 This book offers a thorough survey of long wavelength infrared semiconductor emitters based primarily on quantum wells and superlattices Featuring contributions from the most prominent researchers in the field this volume allows readers to compare different types of lasers as well as examine investigations of potential far infrared terahertz sources This is an essential reference for researchers engineers and graduate students who wish to obtain comprehensive knowledge about infrared semiconductor sources and recent developments in this field

Long Wavelength Semiconductor Lasers Development for Infrared Heterodyne Applications National Aeronautics and Space Administration,2018-12-29 PbSnTe single crystals were grown in a new 3 zone furnace Molecular beam epitaxy MBE growth parameters have been established including beam flux vs temperature and growth rates and dopant vs PbTe flux ratios for the various effusion sources involved Lattice matching studies were conducted and doping studies were completed Broad area Pb 1 x Sn x Te double heterostructure lasers were fabricated with active layer compositions up to x equals 0.04 at percent Sn in the active layers Electrical and optical test data are presented Feit Zeev and Kostyk Douglas NASA CR 189243 NAS 1 26 189243 NAS5 30445

Semiconductor Laser Theory Prasanta Kumar Basu,Bratati Mukhopadhyay,Rikmantra Basu,2015-06-17 Developed from the authors classroom tested material Semiconductor Laser Theory takes a semiclassical approach to teaching the principles structure and applications of semiconductor lasers Designed for graduate students in physics electrical engineering and materials science the text covers many recent developments including diode lasers u

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 Principles of Lasers Orazio Svelto,2010-03-16 This fifth edition of Principles of Lasers includes corrections to the previous edition as well as being the first available as an ebook Its mission remains to provide a broad unified description of laser behavior physics technology and applications **Principles Of Semiconductor Laser Diodes And Amplifiers: Analysis And Transmission Line Laser Modeling** Hooshang Ghafouri-shiraz,2003-12-15 Optical communications technology is growing increasingly in importance with a rapid pace of development Innovative optical devices have emerged from the integration of semiconductor laser diodes amplifiers and filters with optical waveguide technology This well researched volume traces the evolution of semiconductor laser amplifiers SLAs from these technologies Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems This book will provide engineering and science students with a basic understanding of laser diode and optical amplification through the analysis of the performance characteristics of these devices both in theory and application Practising device engineers wishing to consolidate their knowledge in lightwave technology will also find this book an invaluable reference a Process Technology for Semiconductor Lasers Kenichi Iga,Susumu Kinoshita,2013-03-07 Process Technology for Semiconductor Lasers describes the design principles of semiconductor lasers mainly from the fabrication point of view A review is given of the history of semiconductor laser development and applications and of the materials used in lasing at short to long wavelengths The basic design principles for semiconductor laser devices and the epitaxy for laser production are discussed An entire chapter is devoted to the technology of liquid phase epitaxy and another one to vapor phase and beam epitaxies The characterizations of laser materials and the fabrication and characteristics of semiconductor lasers are treated Mode control techniques are presented and surface emitting lasers are introduced in the final chapter **Introduction to Semiconductor Lasers for Optical Communications** David J. Klotzkin,2013-11-30 This textbook provides a thorough and accessible treatment of semiconductor lasers from a design and engineering perspective It includes both the physics of devices as well as the engineering designing and testing of practical lasers The material is presented clearly with many examples provided Readers

of the book will come to understand the finer aspects of the theory design fabrication and test of these devices and have an excellent background for further study of optoelectronics This book also Provides a multi faceted approach to explaining the theories behind semiconductor lasers utilizing mathematical examples illustrations and written theoretical presentations Offers a balance of relevant optoelectronic topics with specific attention given to distributed feedback lasers growth techniques and waveguide cavity design Provides a summary of every chapter worked examples and problems for readers to solve Incorporates and explains recent breakthroughs in laser design

Handbook of Laser Wavelengths Marvin J. Weber, 2018-10-08 This volume represents the most complete up to date compilation of wavelengths of lasers in all media Divided by type solid liquid and gas and listed in order of increasing wavelength Handbook of Laser Wavelengths includes crystalline paramagnetic ion lasers glass lasers color center lasers semiconductor lasers polymer lasers liquid and solid state dye lasers rare earth liquid lasers neutral atom ion and molecular gas lasers extreme ultraviolet and soft X ray lasers free electron lasers nuclear pumped lasers lasers in nature lasers without inversion Brief descriptions of each type of laser are presented followed by tables listing the laser wavelength lasing element or medium host transition and primary literature citations A special section on commercial lasers is an added featured Handbook of Laser Wavelengths singularly serves as the essential reference for scientists and engineers searching for laser sources for specific applications as well as a survey of the developments that have occurred since the advent of the laser

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Table of Contents Long Wavelength Semiconductor Lasers

1. Understanding the eBook Long Wavelength Semiconductor Lasers
 - The Rise of Digital Reading Long Wavelength Semiconductor Lasers
 - Advantages of eBooks Over Traditional Books
2. Identifying Long Wavelength Semiconductor Lasers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Long Wavelength Semiconductor Lasers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Long Wavelength Semiconductor Lasers
 - Personalized Recommendations
 - Long Wavelength Semiconductor Lasers User Reviews and Ratings
 - Long Wavelength Semiconductor Lasers and Bestseller Lists
5. Accessing Long Wavelength Semiconductor Lasers Free and Paid eBooks
 - Long Wavelength Semiconductor Lasers Public Domain eBooks
 - Long Wavelength Semiconductor Lasers eBook Subscription Services
 - Long Wavelength Semiconductor Lasers Budget-Friendly Options
6. Navigating Long Wavelength Semiconductor Lasers eBook Formats

- ePub, PDF, MOBI, and More
- Long Wavelength Semiconductor Lasers Compatibility with Devices
- Long Wavelength Semiconductor Lasers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Long Wavelength Semiconductor Lasers
 - Highlighting and Note-Taking Long Wavelength Semiconductor Lasers
 - Interactive Elements Long Wavelength Semiconductor Lasers
- 8. Staying Engaged with Long Wavelength Semiconductor Lasers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Long Wavelength Semiconductor Lasers
- 9. Balancing eBooks and Physical Books Long Wavelength Semiconductor Lasers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Long Wavelength Semiconductor Lasers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Long Wavelength Semiconductor Lasers
 - Setting Reading Goals Long Wavelength Semiconductor Lasers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Long Wavelength Semiconductor Lasers
 - Fact-Checking eBook Content of Long Wavelength Semiconductor Lasers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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