



High Temperature High Frequency Operation Of Single And Multiple Quantum Well Ingaas Semiconductor Lasers

Terry C. Jones



High Temperature High Frequency Operation Of Single And Multiple Quantum Well Ingaas Semiconductor Lasers:

High-Temperature High-Frequency Operation of Single and Multiple Quantum Well InGaAs Semiconductor Lasers, 2000

High speed semiconductor lasers operating at high temperatures are desired for future aircraft avionics systems to reduce weight increase data rates and eliminate undesired electromagnetic emissions Strained InGaAs quantum well lasers have demonstrated excellent temperature performance and frequency response To determine what trade offs exist between high temperature performance and high speed performance In_{0.2}Ga_{0.8}As quantum wells were fabricated and tested to determine the optimum number of quantum wells to provide the highest frequency response at temperatures up to 150 deg C This presentation reports on the design and development of high frequency In_{0.2}Ga_{0.8}As single and multiple quantum well lasers for operation at high temperatures The lasers were grown by molecular beam epitaxy and fabricated into gain guided lasers for laser material characterization and ridge waveguide lasers providing single mode operation for net modal gain and high frequency analysis The ridge waveguide lasers operated in continuous wave current mode up to temperatures of 90 deg C for single quantum well devices and up to 150 deg C for multiple quantum well devices The single quantum well lasers exhibited a 3dB frequency response 7 GHz for room temperature operation and 3 GHz at 90 deg C The four quantum well laser device had a 3dB frequency response of tilde 14 GHz for room temperature operation and tilde 5 GHz at 150 deg C This the highest temperature for high frequency operation reported to date

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 **Semiconductor Quantum Well Intermixing** J. T. Lie,2000-01-18 Semiconductor Quantum Well Intermixing is an international collection of research results dealing with several aspects of the diffused quantum well DFQW ranging from Physics to materials and device applications The material covered is the basic interdiffusion mechanisms of both cation and anion groups as well as the properties of band structure Comp. Optical Communications N. Bala Saraswathi, I. Ravi Kumar, Japanese Science and Technology ,1988 *Principal of Optical Communication and Opto Electronics* ,2000* **Japanese Science and Technology, 1983-1984** United States. National Aeronautics and Space Administration. Scientific and Technical Information Branch,1985 Fibre Optic Communication Herbert Venghaus,Norbert Grote,2012-08-29 The book gives an in depth description of the key devices of current and next generation fibre optic communication networks In particular the book covers devices such as semiconductor lasers optical amplifiers modulators wavelength filters and detectors but the relevant properties of optical fibres as well The presentations include the physical principles underlying the various devices the technologies used for the realization of the different devices typical performance characteristics and limitations and development trends towards more advanced components are also illustrated Thus the scope of the book spans relevant principles state of the art implementations the status of current research and expected future components **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 **Scientific and Technical Aerospace Reports** ,1995 **Chemical Abstracts** ,2002 **VCSELs** Rainer Michalzik,2012-10-16 The huge progress which has been achieved in the field is covered here in the first comprehensive monograph on vertical cavity surface emitting lasers VCSELs since eight years Apart from chapters reviewing the research field and the laser fundamentals there are comprehensive updates on red and blue emitting VCSELs telecommunication VCSELs optical transceivers and parallel optical links for computer interconnects Entirely new contributions are made to the

fields of vectorial three dimensional optical modeling single mode VCSELs polarization control polarization dynamics very high speed design high power emission use of high contrast gratings GaInNAsSb long wavelength VCSELs optical video links VCSELs for optical mice and sensing as well as VCSEL based laser printing The book appeals to researchers optical engineers and graduate students *Semiconductor Materials Analysis and Fabrication Process Control* G.M. Crean,R. Stuck,J.A. Woollam,2012-12-02 There is a growing awareness that the successful implementation of novel material systems and technology steps in the fabrication of microelectronic and optoelectronic devices is critically dependent on the understanding and control of the materials the process steps and their interactions The contributions in this volume demonstrate that characterisation and analysis techniques are an essential support mechanism for research in these fields Current major research themes are reviewed both in the development and application of diagnostic techniques for advanced materials analysis and fabrication process control Two distinct trends are elucidated the emergence and evaluation of sophisticated in situ optical diagnostic techniques such as photoreflectance and spectroellipsometry and the industrial application of ultra high sensitivity chemical analysis techniques for contamination monitoring The volume will serve as a useful and timely overview of this increasingly important field *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 **High Speed Diode Lasers** Sergei A. Gurevich,1998 This book is composed of seven invited papers which present the current status of high speed diode lasers Fast carrier and photon dynamics in directly modulated MQW lasers is analyzed and novel design approaches are considered which were critical for the demonstration and record of 40 GHz modulation bandwidth Attention is centered on the challenges in creation of high speed and low chirp single mode DFB lasers Recent progress in mode locked diode lasers is covered specifically by the examples of 160 fs pulse generation and appearance of microwave pulse repetition rates Future trends in increasing of high speed laser performance are also examined Comprehensive Nanoscience and Nanotechnology ,2019-01-02 Comprehensive Nanoscience and Technology Second Edition Five Volume Set allows researchers to navigate a very diverse interdisciplinary and rapidly changing field with up to date comprehensive and authoritative coverage of every aspect of modern nanoscience and nanotechnology Presents new chapters on the latest developments in the field Covers topics not discussed to this degree of detail in other works such as biological devices and applications of nanotechnology Compiled and written by top international authorities in the field **High-Speed Photonics**

Interconnects Lukas Chrostowski, Krzysztof Iniewski, 2017-12-19 Dramatic increases in processing power have rapidly scaled on chip aggregate bandwidths into the Tb/s range. This necessitates a corresponding increase in the amount of data communicated between chips so as not to limit overall system performance. To meet the increasing demand for interchip communication bandwidth, researchers are investigating the use of high speed optical interconnect architectures. Unlike their electrical counterparts, optical interconnects offer high bandwidth and negligible frequency dependent loss, making possible per channel data rates of more than 10 Gb/s. *High Speed Photonics Interconnects* explores some of the groundbreaking technologies and applications that are based on photonics interconnects. From the Evolution of High Speed I/O Circuits to the Latest in Photonics Interconnects Packaging and Lasers, featuring contributions by experts from academia and industry, the book brings together in one volume cutting edge research on various aspects of high speed photonics interconnects. Contributors delve into a wide range of technologies from the evolution of high speed input/output I/O circuits to recent trends in photonics interconnects packaging. The book discusses the challenges associated with scaling I/O data rates and current design techniques. It also describes the major high speed components, channel properties and performance metrics. The book exposes readers to a myriad of applications enabled by photonics interconnects technology. Learn about Optical Interconnect Technologies Suitable for High Density Integration with CMOS Chips. This richly illustrated work details how optical interchip communication links have the potential to fully leverage increased data rates provided through complementary metal oxide semiconductor (CMOS) technology scaling at suitable power efficiency levels. Keeping the mathematics to a minimum, it gives engineers, researchers, graduate students and entrepreneurs a comprehensive overview of the dynamic landscape of high speed photonics interconnects. Government Reports Annual Index, 1994

Perspectives for Parallel Optical Interconnects Philippe Lalanne, Pierre Chavel, 2013-11-11 This volume is a monograph on parallel optical interconnects. It presents not only the state of the art in this domain but also the necessary physical and chemical background. It also provides a discussion of the potential for future devices. Both experts and newcomers to the area will appreciate the authors' proficiency in providing the complete picture of this rapidly growing field. Optical interconnects are already established in telecommunications and should eventually find their way being applied to chip and even gate level connections in integrated systems. The inspiring environment of the Basic Research Working Group on Optical Information Technology (WOIT 3199) together with the excellent and complementary skills of its participants make this contribution highly worthwhile. G. Metakides

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