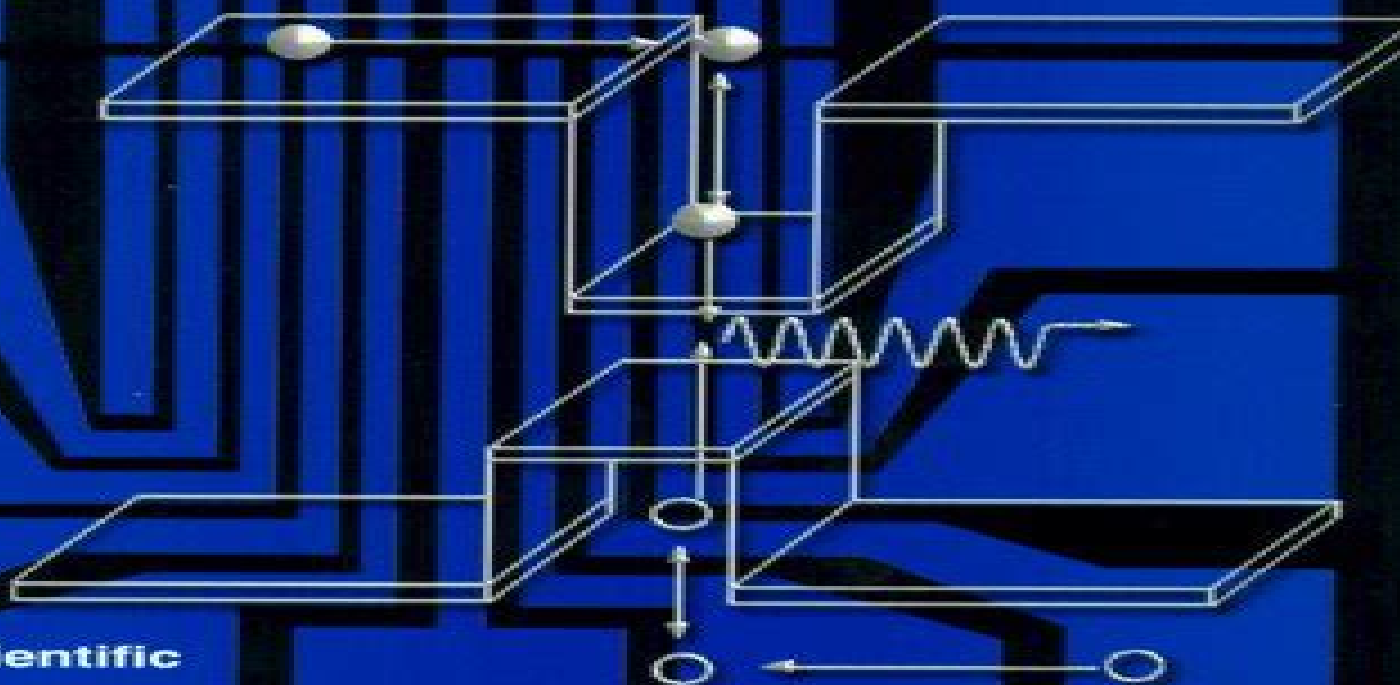


HIGH SPEED DIODE LASERS

Editor

Sergei A Gurevich



World Scientific

High Speed Diode Lasers

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High Speed Diode Lasers:

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

Handbook of Laser Technology and Applications Colin Webb, Julian D.C. Jones, 2020-09-29 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists and engineers who work with lasers The Handbook provides a comprehensive guide to the current status of lasers and laser systems it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics Whilst being a self contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser s performance and beam delivery systems The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies

Tunable External Cavity Diode Lasers Cunyun Ye, Tjan Kwang Wei, 2004-01-01 Annotation Presents a thorough account of the state of the art of tunable external cavity diode lasers Provides an up to date survey on physics technology and performance of widely applicable coherent radiation sources of tunable external cavity diode lasers May be used as a textbook for related undergraduate and graduate courses

Development and analysis of diode laser ns-MOPA systems for high peak power application Thi Nghiem Vu, 2017-02-14

This work aims at designing and characterizing diode laser based master oscillator power amplifier MOPA systems which are targeted to be implemented into micro light detection and ranging LIDAR or differential absorption LIDAR DIAL systems for water vapor and aerosol detections. These light sources operate in the ns pulse regime at a repetition rate of 25 kHz leading to a resolution in the meter range in an altitude of 6 km. The monolithic MOPA where Master Oscillator MO and Power Amplifier PA are integrated on one single chip operates at 1064 nm wavelength. A peak power of 16.3 W with a pulse width of 3 ns was obtained. A spectral linewidth of about 150 pm and a side mode suppression ratio SMSR of 30 dB was observed. A ratio of 9% between the amplified spontaneous emission ASE and the laser was estimated. These spectral properties fulfill the requirements for aerosol detection. The hybrid MOPA systems have separate chips for MO and PA. Different hybrid MOPA systems provide a stabilized wavelength at 1064 nm, a tunable wavelength around 975 nm and a dual wavelength around 964 nm. They therefore enable to detect a well defined absorption line, scan over absorption line and switch between on/off line in DIAL applications respectively. Their spectral linewidth is below 10 pm, limited by the resolution of the spectrum analyzer. An SMSR of more than 50 dB for the MO and of more than 37 dB for the whole MOPA was reached. A ratio between ASE and laser below 1% was estimated. These spectral properties meet the requirements for water vapor absorption lines detection at atmospheric condition. Diode laser based MOPA systems were therefore proven to be potential light sources for micro pulse LIDAR systems, the basis for a new generation of ultra compact low cost systems.

Diode Laser Materials and Devices - A Worldwide Market and Technology Overview to 2005 R. Szweda, 2001-12-20. This report examines the development of the diode laser industry over a six year period 2000 to 2005 incorporating analysis of trends in markets, technologies and industry structure. It is designed to provide key information to users and manufacturers of substrates, epitaxial wafers, epiwafers and devices. The coverage includes components, laser diodes and the semiconducting SC wafers and epiwafers on which most of these devices are made. The geographical coverage of the report includes North America, Japan and Europe which together will account for over 90% of the production and consumption of diode laser materials and devices over the next five years. However, many other countries have activities in this field including South East Asia, Taiwan, South Korea, Singapore, Malaysia etc., China, India, Australia and Eastern Europe, Russia, Poland, Hungary, the Czech Republic, amongst others. Activities in these countries are commented on in the text where relevant but are not quantified in the market data. Chapter 1 is an introduction to the market study. Chapter 2 contains an executive summary. Chapter 3 overviews materials markets. The size, quality and particularly the price of substrates and wafers are key factors in determining the ability of companies to produce competitive laser products. Chapter 3 also examines trends in materials technologies for laser diodes, the impact of the device markets on wafer demand and the main suppliers. This chapter introduces the semiconductor materials that are presently or will likely become important to the fabrication of diode laser devices. The principal distinguishing properties of these materials are explained with reference to their application. Chapter 4 examines the basic application sectors for

laser diode devices as well as the basic commercial opportunities changes and forces acting within each sector The chapter also examines the market for the basic types of device as well as the promising newer types For each type of device market data and forecasts are provided and future prospects described The application data are presented for the following industrial groups Automotive Computers Consumer Industrial Military and Aerospace Telecommunications Others A full 5 year forecast and analysis is provided by application and region Chapter 5 is a technology overview In this chapter a background and overview of developments in the principal technological R D and production processes for devices is provided The main focus is on the most important enabling technology for the production of the present and future generations of laser diodes and related devices This process is crystal growth and involves the following sequence Bulk growth of single crystals Epitaxial growth of semiconductor single crystal layers Ion implantation Device fabrication ie gate and contact formation etc Packaging test Chapter 6 profiles substrate suppliers epiwafers suppliers and merchant and captive producers of GaAs devices Chapter 7 lists universities and selected industrial labs involved in the areas of diode laser research Chapter 8 is a directory of suppliers Chapter 9 provides acronyms and exchange rates

Understanding Lasers Jeff Hecht, 2018-12-27 The expanded fourth edition of the book that offers an essential introduction to laser technology and the newest developments in the field The revised and updated fourth edition of Understanding Lasers offers an essential guide and introduction that explores how lasers work what they do and how they are applied in the real world The author a Fellow of The Optical Society reviews the key concepts of physics and optics that are essential for understanding lasers and explains how lasers operate The book also contains information on the optical accessories used with lasers Written in non technical terms the book gives an overview of the wide variety laser types and configurations Understanding Lasers covers fiber solid state excimer helium neon carbon dioxide free electron lasers and more In addition the book also explains concepts such as the difference between laser oscillation and amplification the importance of laser gain and tunable lasers The updated fourth edition highlights the most recent research and development in the field This important resource Includes a new chapter on fiber lasers and amplifiers Reviews new topics on physics of optical fibers and fiber lasers disk lasers and Ytterbium lasers Contains new sections on Laser Geometry and Implications Diode Laser Structures Optimal Parametric Sources and 3D Printing and Additive Manufacturing Puts the focus on research and emerging developments in areas such as spectroscopy slow light laser cooling and extremely precise measurements Contains appendices glossary and index that help make this book a useful reference Written for engineering and physics students engineers scientists and technicians the fourth edition of Understanding Lasers contains the basic concepts of lasers and the most recent advances in the technology

Precision Spectroscopy, Diode Lasers, and Optical Frequency Measur Leo Hollberg, 2000 A selected set of reprints from the Optical Frequency Measurement Group of the Time and Frequency Div of the Nat Inst of Standards and Technology and consists of work published between 1987 and 1997 The 2 programs represented are 1 development of

tunable diode laser technology for scientific applications and precision measurements and 2 research toward the goal of realizing optical frequency measurements and synthesis The papers are organized in 5 categories diode laser technology tunable laser systems laser spectroscopy optical synthesis and extended wavelength coverage and multi photon interactions and optical coherence

Fibre Optic Communication Herbert Venghaus, Norbert Grote, 2017-01-20 The book gives an in depth description of key devices of current and next generation fibre optic communication networks Devices treated include semiconductor lasers optical amplifiers modulators wavelength filters and other passives detectors all optical switches but relevant properties of optical fibres and network aspects are included as well The presentations include the physical principles underlying the various devices technologies used for their realization typical performance characteristics and limitations but development trends towards more advanced components are also illustrated This new edition of a successful book was expanded and updated extensively The new edition covers among others lasers for optical communication optical switches hybrid integration monolithic integration and silicon photonics The main focus is on Indium phosphide based structures but silicon photonics is included as well The book covers relevant principles state of the art implementations status of current research as well as expected future components

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

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

Handbook of Laser Technology and Applications (Three- Volume Set) Colin Webb, Julian D. C. Jones, 2003-12-01 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists a

State-of-the-art Laser Gas Sensing Technologies Yufei Ma, Aurore Vicet, Karol Krzempek, 2020-03-05 Trace gas sensing technologies are widely used in many applications such as environmental monitoring life science medical diagnostics and planetary exploration On the one hand laser sources have developed greatly due to the rapid development of laser media and laser techniques in recent years Some novel lasers such as solid state diode and quantum cascade lasers have experienced significant progress At present laser wavelengths can

cover the range from ultraviolet to terahertz which could promote the development of laser gas sensing technologies significantly On the other hand some new gas sensing methods have appeared such as photothermal spectroscopy and photoacoustic spectroscopy Laser spectroscopy based gas sensing techniques have the advantages of high sensitivity non invasiveness and allowing in situ real time observation Due to the rapid and recent developments in laser source as well as the great merits of laser spectroscopy based gas sensing techniques this book aims to provide an updated overview of the state of the art laser gas sensing technologies

Introduction to Laser Technology C. Breck Hitz, James J. Ewing, Jeff Hecht, 2012-04-10 The only introductory text on the market today that explains the underlying physics and engineering applicable to all lasers Although lasers are becoming increasingly important in our high tech environment many of the technicians and engineers who install operate and maintain them have had little if any formal training in the field of electro optics This can result in less efficient usage of these important tools Introduction to Laser Technology Fourth Edition provides readers with a good understanding of what a laser is and what it can and cannot do The book explains what types of laser to use for different purposes and how a laser can be modified to improve its performance in a given application With a unique combination of clarity and technical depth the book explains the characteristics and important applications of commercial lasers worldwide and discusses light and optics the fundamental elements of lasers and laser modification In addition to new chapter end problems the Fourth Edition includes new and expanded chapter material on Material and wavelength Diode Laser Arrays Quantum cascade lasers Fiber lasers Thin disk and slab lasers Ultrafast fiber lasers Raman lasers Quasi phase matching Optically pumped semiconductor lasers Introduction to Laser Technology Fourth Edition is an excellent book for students technicians engineers and other professionals seeking a fuller more formal introduction to the field of laser technology

Laser-Arc Processes and Their Applications in Welding and Material Treatment Peter Seyffarth, Igor Krivtsun, 2002-05-23 Laser Arc Processes and Their Applications in Welding and Material Treatment presents a comprehensive and timely overview of laser arc processes for material joining and treatment which is a current and developing research area The authors review existing methods for combined welding and associated processes and describe theoretical investigations of the stationary combined discharge induced by focused laser radiation of CW CO₂ lasers affecting the DC arc plasma The volume also details the main principles of integrated plasma torches together with their applications in the joining and treatment of materials

Scientific and Technical Aerospace Reports, 1994 **Semiconductor Lasers I** Eli Kapon, 1999-01-12 This book covers the device physics of semiconductor lasers in five chapters written by recognized experts in this field The volume begins by introducing the basic mechanisms of optical gain in semiconductors and the role of quantum confinement in modern quantum well diode lasers Subsequent chapters treat the effects of built in strain one of the important recent advances in the technology of these lasers and the physical mechanisms underlying the dynamics and high speed modulation of these devices The book concludes with chapters addressing the control of photon

states in squeezed light and microcavity structures and electron states in low dimensional quantum wire and quantum dot lasers The book offers useful information for both readers unfamiliar with semiconductor lasers through the introductory parts of each chapter as well as a state of the art discussion of some of the most advanced semiconductor laser structures intended for readers engaged in research in this field This book may also serve as an introduction for the companion volume Semiconductor Lasers II Materials and Structures which presents further details on the different material systems and laser structures used for achieving specific diode laser performance features Introduces the reader to the basics of semiconductor lasers Covers the fundamentals of lasing in semiconductors including quantum confined and microcavity structures Beneficial to readers interested in the more general aspects of semiconductor physics and optoelectronic devices such as quantum confined heterostructures and integrated optics Each chapter contains a thorough introduction to the topic geared toward the non expert followed by an in depth discussion of current technology and future trends Useful for professionals engaged in research and development Contains numerous schematic and data containing illustrations

Lasers and Their Applications Phoenix Walsh, 2018-11-26 A laser is a device that emits light through a process of optical amplification based on the stimulated emission of electromagnetic radiation The term laser originated as an acronym for light amplification by stimulated emission of radiation Laser Applications provides a firm grounding in the fundamental concepts over governing the field on Optics This reference book is useful for the students of B E B Tech and M Tech courses The present book is an attempt to treat the subject of Laser as an introductory course With recent major breakthroughs in ultrafast laser technology and femtosecond nonlinear spectroscopic techniques Femtosecond Laser Spectroscopy is currently a burgeoning field in many branches of science including physics chemistry biology and materials science Attempts have also been made to cover the frontline areas in the subject The development of Laser and its various applications in Communications Radiation medicine Holography etc has been given due importance

Energy Research Abstracts, 1988

Diode Lasers and Photonic Integrated Circuits Larry A. Coldren, Scott W. Corzine, Milan L. Mashanovitch, 2012-03-02 Diode Lasers and Photonic Integrated Circuits Second Edition provides a comprehensive treatment of optical communication technology its principles and theory treating students as well as experienced engineers to an in depth exploration of this field Diode lasers are still of significant importance in the areas of optical communication storage and sensing Using the the same well received theoretical foundations of the first edition the Second Edition now introduces timely updates in the technology and in focus of the book After 15 years of development in the field this book will offer brand new and updated material on GaN based and quantum dot lasers photonic IC technology detectors modulators and SOAs DVDs and storage eye diagrams and BER concepts and DFB lasers Appendices will also be expanded to include quantum dot issues and more on the relation between spontaneous emission and gain

Ultrafast Diode Lasers Peter Vasil'ev, 1995 This timely book combines theory applications and projections on ultrafast diode lasers UDL A comprehensive treatment of UDLs from basic physical principles to

applications in optical fiber communications and ultrafast electronics

Decoding **High Speed Diode Lasers**: Revealing the Captivating Potential of Verbal Expression

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