

Friedrich Bachmann
Peter Loosen
Reinhart Poprawe
(Eds.)

High Power Diode Lasers

Technology and Applications

High Power Diode Lasers Technology And Applications Springer Series In Optical Sciences

Chunlei Guo, Subhash Chandra Singh



High Power Diode Lasers Technology And Applications Springer Series In Optical Sciences:

High Power Diode Lasers Friedrich Bachmann, Peter Loosen, Reinhart Poprawe, 2007-05-26 This book summarizes a five year research project as well as subsequent results regarding high power diode laser systems and their application in materials processing The text explores the entire chain of technology from the semiconductor technology through cooling mounting and assembly beam shaping and system technology to applications in the processing of such materials as metals and polymers Includes theoretical models a range of important parameters and practical tips *Packaging of High Power Semiconductor Lasers* Xingsheng Liu, Wei Zhao, Lingling Xiong, Hui Liu, 2014-07-14 This book introduces high power semiconductor laser packaging design The challenges of the design and various packaging and testing techniques are detailed by the authors New technologies and current applications are described in detail *Laser Physics and Technology* Pradeep Kumar Gupta, Rajeev Khare, 2014-11-06 The book *Laser Physics and Technology* addresses fundamentals of laser physics representative laser systems and techniques and some important applications of lasers The present volume is a collection of articles based on some of the lectures delivered at the School on Laser Physics and Technology organized at Raja Ramanna Centre for Advanced Technology during March 12 30 2012 The objective of the School was to provide an in depth knowledge of the important aspects of laser physics and technology to doctoral students and young researchers and motivate them for further work in this area In keeping with this objective the fourteen chapters written by leading Indian experts based on the lectures delivered by them at the School provide along with class room type coverage of the fundamentals of the field a brief review of the current status of the field The book will be useful for doctoral students and young scientists who are embarking on a research in this area as well as to professionals who would be interested in knowing the current state of the field particularly in Indian context *Handbook of Laser Technology and Applications* Chunlei Guo, Subhash Chandra Singh, 2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser technologies including the complete range of their technical applications The first volume outlines the fundamental components of lasers their properties and working principles Key Features Offers a complete update of the original bestselling work including many brand new chapters Deepens the introduction to fundamentals from laser design and fabrication to host matrices for solid state lasers energy level diagrams hosting materials dopant energy levels and lasers based on nonlinear effects Covers new laser types including quantum cascade lasers silicon based lasers titanium sapphire lasers terahertz lasers bismuth doped fiber lasers and diode pumped alkali lasers Discusses the latest applications e g lasers in microscopy high speed imaging attosecond metrology 3D printing optical atomic clocks time resolved spectroscopy polarization and profile measurements pulse measurements and laser induced fluorescence detection Adds new sections on laser materials processing laser spectroscopy lasers in imaging lasers in environmental sciences and lasers in communications This handbook is the ideal companion for scientists engineers and students working with lasers including

those in optics electrical engineering physics chemistry biomedicine and other relevant areas **Handbook of Optoelectronic Device Modeling and Simulation** Joachim Piprek, 2017-10-12 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field 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 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 and engineers. **Optical Fiber Telecommunications V A B** is the fifth in a series that has chronicled the progress in the research and development of lightwave communications since the early 1970s. Written by active authorities from academia and industry, this edition not only brings a fresh look to many essential topics but also focuses on network management and services. Using high bandwidth in a cost effective manner for the development of customer applications is a central theme. This book is ideal for R D engineers and managers, optical systems implementers, university researchers and students, network operators and the investment community. Volume A is devoted to components and subsystems including semiconductor lasers, modulators, photodetectors, integrated photonic circuits, photonic crystals, specialty fibers, polarization mode dispersion, electronic signal processing, MEMS, nonlinear optical signal processing and quantum information technologies. Volume B is devoted to systems and networks including advanced modulation formats, coherent systems, time multiplexed systems, performance monitoring, reconfigurable add drop multiplexers, Ethernet technologies, broadband access and services, metro networks, long haul transmission, optical switching, microwave photonics, computer interconnections and simulation tools. **Biographical Sketches** Ivan Kaminow, retired from Bell Labs in 1996 after a 42 year career. He conducted seminal studies on electrooptic modulators and materials, Raman scattering in ferroelectrics, integrated optics, semiconductor lasers, DBR ridge waveguide, InGaAsP and multi frequency birefringent optical fibers and WDM networks. Later he led research on WDM components, EDFAs, AWGs and fiber Bragg Gratings, Perot Filters and on WDM local and wide area networks. He is a member of the National Academy of Engineering and a recipient of the IEEE OSA John Tyndall Award, OSA Charles Townes Award and IEEE LEOS Quantum Electronics Awards. Since 2004 he has been Adjunct Professor of Electrical Engineering at the University of California Berkeley. Tingye Li, retired from AT T in 1998 after a 41 year career at Bell Labs and AT T Labs. His seminal work on laser resonator modes is considered a classic. Since the late 1960s he and his groups have conducted pioneering studies on lightwave technologies and systems. He led the work on amplified WDM transmission systems and championed their deployment for upgrading network capacity. He is a member of the National Academy of Engineering and a foreign member of the Chinese Academy of Engineering. He is a recipient of the IEEE David Sarnoff Award, IEEE OSA John Tyndall Award, OSA Ives Medal, Quinn Endowment, AT T Science and Technology Medal and IEEE Photonics Award. Alan Willner has worked at AT T Bell Labs and Bellcore and he is Professor of Electrical Engineering at the University of Southern California. He received the NSF Presidential Faculty Fellows Award from the White House, Packard Foundation Fellowship, NSF National Young Investigator Award, Fulbright Foundation Senior Scholar, IEEE LEOS Distinguished Lecturer and USC University Wide Award for Excellence in Teaching. He is a Fellow of IEEE and OSA and he has been President of the IEEE LEOS, Editor in Chief of the IEEE OSA Journal of Lightwave Technology, Editor in Chief of Optics Letters, Co Chair of the OSA Science Engineering Council and General Co Chair of the Conference on Lasers and

Electro Optics *Optical Fiber Telecommunications VA* Ivan Kaminow, Tingye Li, Alan E. Willner, 2010-07-28 Optical Fiber Telecommunications V A B is the fifth in a series that has chronicled the progress in the research and development of lightwave communications since the early 1970s Written by active authorities from academia and industry this edition not only brings a fresh look to many essential topics but also focuses on network management and services Using high bandwidth in a cost effective manner for the development of customer applications is a central theme This book is ideal for R D engineers and managers optical systems implementers university researchers and students network operators and the investment community Volume A is devoted to components and subsystems including semiconductor lasers modulators photodetectors integrated photonic circuits photonic crystals specialty fibers polarization mode dispersion electronic signal processing MEMS nonlinear optical signal processing and quantum information technologies Volume B is devoted to systems and networks including advanced modulation formats coherent systems time multiplexed systems performance monitoring reconfigurable add drop multiplexers Ethernet technologies broadband access and services metro networks long haul transmission optical switching microwave photonics computer interconnections and simulation tools Biographical Sketches Ivan Kaminow retired from Bell Labs in 1996 after a 42 year career He conducted seminal studies on electrooptic modulators and materials Raman scattering in ferroelectrics integrated optics semiconductor lasers DBR ridge waveguide InGaAsP and multi frequency birefringent optical fibers and WDM networks Later he led research on WDM components EDFAs AWGs and fiber Fabry Perot Filters and on WDM local and wide area networks He is a member of the National Academy of Engineering and a recipient of the IEEE OSA John Tyndall OSA Charles Townes and IEEE LEOS Quantum Electronics Awards Since 2004 he has been Adjunct Professor of Electrical Engineering at the University of California Berkeley Tingye Li retired from AT T in 1998 after a 41 year career at Bell Labs and AT T Labs His seminal work on laser resonator modes is considered a classic Since the late 1960s He and his groups have conducted pioneering studies on lightwave technologies and systems He led the work on amplified WDM transmission systems and championed their deployment for upgrading network capacity He is a member of the National Academy of Engineering and a foreign member of the Chinese Academy of Engineering He is a recipient of the IEEE David Sarnoff Award IEEE OSA John Tyndall Award OSA Ives Medal Quinn Endowment AT T Science and Technology Medal and IEEE Photonics Award Alan Willner has worked at AT T Bell Labs and Bellcore and he is Professor of Electrical Engineering at the University of Southern California He received the NSF Presidential Faculty Fellows Award from the White House Packard Foundation Fellowship NSF National Young Investigator Award Fulbright Foundation Senior Scholar IEEE LEOS Distinguished Lecturer and USC University Wide Award for Excellence in Teaching He is a Fellow of IEEE and OSA and he has been President of the IEEE LEOS Editor in Chief of the IEEE OSA J of Lightwave Technology Editor in Chief of Optics Letters Co Chair of the OSA Science Engineering Council and General Co Chair of the Conference on Lasers and Electro Optics For nearly three decades the OFT series has served as the comprehensive primary resource

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Fundamentals of Fiber Lasers and Fiber Amplifiers Valerii (Vartan) Ter-Mikirtychev, 2013-11-19 This book covers the fundamental aspects of fiber lasers and fiber amplifiers and includes a wide range of material from laser physics fundamentals to state of the art topics as well as industrial applications in the rapidly growing field of quantum electronics Emphasis is placed on the nonlinear processes taking place in fiber lasers and amplifiers their similarities differences to and their advantages over other solid state lasers The reader will learn basic principles of solid state physics and optical spectroscopy of laser active centers in fibers main operational laser regimes and practical recommendations and suggestions on fiber laser research laser applications and laser product development The book will be useful for students researchers and professionals who work with lasers in the optical communications chemical and biological industries

Epitaxial Design Optimizations for Increased Efficiency in GaAs-Based High Power Diode Lasers Thorben Kaul, 2021-04-09 This work presents progress in the root cause analysis of power saturation mechanisms in continuous wave CW driven GaAs based high power broad area diode lasers operated at 935 nm Target is to increase efficiency at high optical CW powers by epitaxial design The novel extreme triple asymmetric ETAS design was developed and patented within this work to equip diode lasers that use an extremely thin p waveguide with a high modal gain An iterative variation of diode lasers employing ETAS designs was used to experimentally clarify the impact of modal gain on the temperature dependence of internal differential quantum efficiency IDQE and optical loss High modal gain leads to increased free carrier absorption from the active region However less power saturation is observed which must then be attributed to an improved temperature sensitivity of the IDQE The effect of longitudinal spatial hole burning LSHB leads to above average non linear carrier loss at the back facet of the device At high CW currents the junction temperature rises Therefore not only the asymmetry of the carrier profile increases but also the average carrier density in order to compensate for the decreased material gain and increased threshold gain This carrier non pinning effect above threshold is found in this work to enhance the impact of LSHB already at low currents leading to rapid degradation of IDQE with temperature This finding puts LSHB into a new context for CW driven devices as it emphasizes the importance of low carrier densities at threshold The carrier density was effectively reduced by applying the novel ETAS design This enabled diode lasers to be realized that show minimized degradation of IDQE with temperature and therefore improved performance in CW operation

Fundamentals of Fiber Lasers and Fiber Amplifiers Vartan V. Ter-Mikirtychev, 2019-12-30 This book covers the fundamental aspects of fiber lasers and fiber amplifiers and includes a wide range of material from laser physics fundamentals to state of the art topics in this rapidly growing field of quantum electronics This expanded and updated new edition includes substantial new material on nonlinear frequency conversion and

Raman fiber lasers and amplifiers as well as an expanded list of references inclusive of the recent literature in the field. Emphasis is placed on the nonlinear processes taking place in fiber lasers and amplifiers, their similarities, differences, and their advantages over other solid state lasers. The reader will learn the basic principles of solid state physics and optical spectroscopy of laser active centers in fibers, the main operational laser regimes, and will receive practical recommendations and suggestions on fiber laser research, laser applications, and laser product development. The book will be useful for students, researchers, and professional physicists and engineers who work with lasers in the optical and telecommunications field as well as those in the chemical and biological industries. 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 Solid-State Lasers** B. Denker, E. Shklovsky, 2013-02-20. Solid state lasers, which offer multiple

desirable qualities including enhanced reliability, robustness, efficiency, and wavelength diversity, are absolutely indispensable for many applications. The Handbook of solid state lasers reviews the key materials, processes, and applications of solid state lasers across a wide range of fields. Part one begins by reviewing solid state laser materials. Fluoride laser crystals, oxide laser ceramics, crystals, and fluoride laser ceramics doped by rare earth and transition metal ions are discussed, alongside

neodymium, erbium, and ytterbium laser glasses and nonlinear crystals for solid state lasers. Part two then goes on to explore solid state laser systems and their applications, beginning with a discussion of the principles, powering, and operation regimes for solid state lasers. The use of neodymium-doped materials is considered, followed by system sizing issues with diode-pumped quasi-three-level materials, erbium glass lasers, and microchip fiber Raman and cryogenic lasers. Laser mid-infrared systems, laser-induced breakdown spectroscopy, and the clinical applications of surgical solid state lasers are also explored.

The use of solid state lasers in defense programs is then reviewed, before the book concludes by presenting some environmental applications of solid state lasers. With its distinguished editors and international team of expert contributors, the Handbook of solid state lasers is an authoritative guide for all those involved in the design and application of this technology, including laser and materials scientists and engineers, medical and military professionals, environmental researchers, and academics working in this field. Reviews the materials used in solid state lasers. Explores the principles of solid state laser systems and their applications. Considers defense and environmental applications. **Laser-Induced Breakdown Spectroscopy** Reinhard Noll, 2012-01-14. This book is a comprehensive source of the fundamentals, process

parameters, instrumental components, and applications of laser-induced breakdown spectroscopy (LIBS). The effect of multiple pulses on material ablation, plasma dynamics, and plasma emission is presented. A heuristic plasma modeling allows to simulate complex experimental plasma spectra. These methods and findings form the basis for a variety of applications to perform quantitative multi-element analysis with LIBS. These application potentials of LIBS have really boosted in the last

years ranging from bulk analysis of metallic alloys and non conducting materials via spatially resolved analysis and depth profiling covering measuring objects in all physical states gaseous liquid and solid Dedicated chapters present LIBS investigations for these tasks with special emphasis on the methodical and instrumental concepts as well as the optimization strategies for a quantitative analysis Requirements concepts design and characteristic features of LIBS instruments are described covering laboratory systems inspections systems for in line process control mobile systems and remote systems State of the art industrial applications of LIBS systems are presented demonstrating the benefits of inline process control for improved process guiding and quality assurance purposes **Lasers in Polymer Science and Technology** Jan F.

Rabek, Jean-Pierre Fouassier, 1989-11-30 The purpose of this 4 volume book is to examine some of the applications of lasers in polymer science and technology Now available for the first time up to date information on this fascinating subject is compiled and presented in compact form This book focuses on current research and developments in the application of lasers in polymer and biopolymer chemistry It includes experimental and theoretical details apparatus techniques and applications This book is a useful source for researchers students polymer chemists and physicists involved in this astonishing field of high technology **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 **Tailoring the Emission of Stripe-array Diode Lasers with External Cavities to Enable Nonlinear Frequency Conversion** Andreas Jechow, 2009 A huge number of applications require coherent radiation in the visible spectral range Since diode lasers are very compact and efficient light sources there exists a great interest to cover these applications with diode laser emission Despite modern band gap engineering not all wavelengths can be accessed with diode laser radiation Especially in the visible spectral range between 480 nm and 630 nm no emission from diode lasers is available yet Nonlinear frequency conversion of near infrared radiation is a common way to generate coherent emission in the visible spectral range However radiation with extraordinary spatial temporal and spectral quality is required to pump frequency conversion Broad area BA diode lasers are reliable high power light sources in the near infrared spectral range They belong to the most efficient coherent light sources with electro optical efficiencies of more than 70% Standard BA lasers are not suitable as pump lasers for frequency conversion because of their poor beam quality and spectral properties For this purpose tapered lasers and diode lasers with Bragg gratings are utilized However these new diode laser structures demand for additional manufacturing and assembling steps that makes their processing challenging and expensive An alternative to BA diode lasers is the stripe array architecture The emitting area of a stripe array diode laser is comparable to a BA device and the manufacturing of these arrays requires only one additional process step Such a stripe

array consists of several narrow striped emitters realized with close proximity. Due to the overlap of the fields of neighboring emitters or the presence of leaky waves a strong coupling between the emitters exists. As a consequence the emission of such an array is characterized by a so called supermode. However for the free running stripe array mode competition between several supermodes occurs because of the lack of wavelength stabilization. This leads to power fluctuations spectral instabilities and poor beam quality. Thus it was necessary to study the emission properties of those stripe arrays to find new concepts to realize an external synchronization of the emitters. The aim was to achieve stable longitudinal and transversal single mode operation with high output powers giving a brightness sufficient for efficient nonlinear frequency conversion. For this purpose a comprehensive analysis of the stripe array devices was done here. The physical effects that are the origin of the emission characteristics were investigated theoretically and experimentally. In this context numerical models could be verified and extended. A good agreement between simulation and experiment was observed. One way to stabilize a specific supermode of an array is to operate it in an external cavity. Based on mathematical simulations and experimental work it was possible to design novel external cavities to select a specific supermode and stabilize all emitters of the array at the same wavelength. This resulted in stable emission with 1 W output power a narrow bandwidth in the range of 2 MHz and a very good beam quality with M

Laser Physics Simon Hooker, Colin Webb, 2010-08-05 An up to date perspective on laser technology for students at advanced undergraduate or introductory graduate level. The principles of operation and applications of modern laser systems are analysed in detail. The text has over 300 diagrams and each chapter is accompanied with questions solutions available on application.

Lasers and Optoelectronics Anil K. Maini, 2013-08-05 With emphasis on the physical and engineering principles this book provides a comprehensive and highly accessible treatment of modern lasers and optoelectronics. Divided into four parts it explains laser fundamentals types of lasers laser electronics optoelectronics and laser applications covering each of the topics in their entirety from basic fundamentals to advanced concepts. Key features include exploration of technological and application related aspects of lasers and optoelectronics detailing both existing and emerging applications in industry medical diagnostics and therapeutics scientific studies and Defence simple explanation of the concepts and essential information on electronics and circuitry related to laser systems illustration of numerous solved and unsolved problems practical examples chapter summaries self evaluation exercises and a comprehensive list of references for further reading. This volume is a valuable design guide for R D engineers and scientists engaged in design and development of lasers and optoelectronics systems and technicians in their operation and maintenance. The tutorial approach serves as a useful reference for under graduate and graduate students of lasers and optoelectronics also PhD students in electronics optoelectronics and physics.

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