



# Semiconductor Diode Lasers

**Mitra Dutta, Michael A. Stroscio**



## **Semiconductor Diode Lasers:**

Semiconductor Diode Lasers William Streifer, Michael Ettenberg, 1991      **Selected Papers on Semiconductor Diode Lasers** James J. Coleman, 1992      High-Power Diode Lasers Roland Diehl, 2000-09-04 With Contributions by Numerous Experts      Monolithic Diode-Laser Arrays Nils W. Carlson, 2012-12-06 Over the last two decades the search for a compact high power semiconductor source has produced many designs and concepts for monolithic diode laser arrays and optical amplifiers. However, only a few design approaches have emerged with the potential for producing high power high brightness monolithic sources. Although semiconductor diode lasers are the most compact, highest gain and most efficient laser sources, challenges remain in developing structures that will produce high quality diffraction limited output beams. This book presents and analyzes the results of work performed over the last twenty years in the development of high brightness diode laser arrays.

**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.

Diode Lasers D. Sands, 2004-10-30 The compact size, reliability and low cost of diode lasers lead to applications throughout modern technology, most importantly in modern optical telecommunication systems. This book presents a comprehensive introduction to the principles and operation of diode lasers. It begins with a review of semiconductor physics and laser fundamentals before describing the most basic homojunction laser. Later chapters describe more advanced laser types and their applications, including the most recently developed and exotic laser designs. The author's intuitive style, coupled with an extensive set of worked examples and sample problems, makes this an outstanding introduction to the subject.

**Semiconductor Diode Lasers** Ralph W. Campbell, Forrest M. Mims, 1972

Laser Diode Microsystems Hans Zappe, 2013-03-14 *Laser Diode Microsystems* provides the reader with the basic knowledge and understanding required for using semiconductor laser diodes in optical microsystems and micro optical electromechanic systems. This tutorial addresses the fundamentals of semiconductor laser operation and design, coupled with an overview of the types of laser diodes suitable for use in Microsystems, along with their distinguishing characteristics. Emphasis is placed on laser diode characterization and measurement, as well as the assembly techniques and optical accessories required for incorporation of semiconductor lasers into complex microsystems. Equipped with typical results and calculation examples, this hands-on text helps readers to develop a feel for how to choose a laser diode, characterize it and incorporate it into a microsystem.

*Improvement of the Beam Quality of High-power Broad Area Semiconductor Diode Lasers by Means of an External Resonator* Ahmad Ibrahim Bawamia, 2012      The Blue Laser Diode Shuji Nakamura, Gerhard Fasol, 2013-04-17 Shuji Nakamura's development of commercial light emitters from Gallium Nitride and related materials has recently propelled these materials into the mainstream of interest. It is very rare that a breakthrough of such proportion can

be converted so quickly into successful commercial products One factor for this success is Shuji Nakamura's hard work another factor is Nichia's enlightened founder Chairman and joint owner Nobuo Ogawa without whom Nakamura probably could not have done this work other factors are Professor Pankove's and Professor Akasaki's pioneering work The amazing speed of GaN breakthroughs caused an information gap There is much less information available on GaN than on silicon or GaAs and most current semiconductor text books do not even mention Gallium Nitride One of the aims of the present book is to close this information gap another important aim is to provide a report on the development of Gallium Nitride based light emitters and lasers and their properties Both aims are rapidly moving targets recent results near the end of the book even report that InGaN lasers might become the first commercial lasers using self assembled quantum dots

*Advances in Semiconductor Lasers and Applications to Optoelectronics* Mitra Dutta, Michael A. Strosio, 2000 Foreword by Charles H Townes This volume includes highlights of the theories underlying the essential phenomena occurring in novel semiconductor lasers as well as the principles of operation of selected heterostructure lasers To understand scattering processes in heterostructure lasers and related optoelectronic devices it is essential to consider the role of dimensional confinement of charge carriers as well as acoustical and optical phonons in quantum structures Indeed it is important to consider the confinement of both phonons and carriers in the design and modeling of novel semiconductor lasers such as the tunnel injection laser quantum well intersubband lasers and quantum dot lasers The full exploitation of dimensional confinement leads to the exciting new capability of scattering time engineering in novel semiconductor lasers As a result of continuing advances in techniques for growing quantum heterostructures recent developments are likely to be followed in coming years by many more advances in semiconductor lasers and optoelectronics As our understanding of these devices and the ability to fabricate them grow so does our need for more sophisticated theories and simulation methods bridging the gap between quantum and classical transport

High Speed Diode Lasers Sergei A Gurevich, 1998-01-15 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

*Semiconductor Laser Diode Technology and Applications* Brian Ismay, 2016-09-01 Lasers are the stuff of science fiction big heavy boxes that make blazing blasts of light If you've ever seen an ordinary laser in a laboratory you'll know it's quite a hefty beast typically about as long as your forearm fairly heavy quite hot and capable of producing a very intense beam of light But if lasers are that big how come we can use them in small things like portable CD players and handheld barcode scanners These things use a very different kind of laser that's about the same size as and

works in a similar way to an ordinary LED known as semiconductor lasers or laser diode A laser diode or LD also known as injection laser diode or ILD is an electrically pumped semiconductor laser in which the active laser medium is formed by a p n junction of a semiconductor diode similar to that found in a light emitting diode The laser diode is the most common type of laser produced with a wide range of uses that include fiber optic communications barcode readers laser pointers CD DVD Blu ray Disc reading and recording laser printing laser scanning and increasingly directional lighting sources Semiconductor Laser Diode Technology and Applications signifies the latest developments in the rapidly developing world of semiconductor laser diode technology and applications Semiconductor lasers or laser diodes play an important part in our everyday lives by providing cheap and compact size lasers They consist of complex multi layer structures requiring nanometer scale accuracy and an elaborate design Their theoretical description is important not only from a fundamental point of view but also in order to generate new and improved designs This book will be of considerable interest to engineers scientists technologists and physicists working in research and development in the field of semiconductor laser diode as well as to young researchers who are at the beginning of their career

**Advances in Semiconductor Lasers** James J Coleman,A. Catrina Bryce,Chennupati Jagadish,2012-05-02 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series

*Semiconductor Disk Lasers* Oleg G. Okhotnikov,2010-03-30 This timely publication presents a review of the most recent developments in the field of Semiconductor Disk Lasers Covering a wide range of key topics such as operating principles thermal management nonlinear frequency conversion semiconductor materials short pulse generation electrical pumping and laser applications the book provides readers with a comprehensive account of the fundamentals and latest advances in this rich and diverse field In so doing it brings together contributions from world experts at major collaborative research centers in Europe and the USA Each chapter includes a tutorial style introduction to the selected topic suitable for postgraduate students and scientists with a basic background in optics making it of interest to a wide range of scientists researchers engineers and physicists working and interested in this rapidly developing field It will also serve as additional reading for students in the field

**Semiconductor Laser Engineering, Reliability and Diagnostics** Peter W. Epperlein,2013-03-18 This reference book provides a fully integrated novel approach to the development of high power single transverse mode edge emitting diode lasers by addressing the complementary topics of device engineering reliability engineering and device diagnostics in the same book and thus closes the gap in the current book literature Diode laser fundamentals are discussed followed by an elaborate discussion of problem oriented design guidelines and techniques and by

a systematic treatment of the origins of laser degradation and a thorough exploration of the engineering means to enhance the optical strength of the laser. Stability criteria of critical laser characteristics and key laser robustness factors are discussed along with clear design considerations in the context of reliability engineering approaches and models and typical programs for reliability tests and laser product qualifications. Novel advanced diagnostic methods are reviewed to discuss for the first time in detail in book literature performance and reliability impacting factors such as temperature stress and material instabilities. Further key features include practical design guidelines that consider also reliability related effects, key laser robustness factors, basic laser fabrication and packaging issues, detailed discussion of diagnostic investigations of diode lasers, the fundamentals of the applied approaches and techniques, many of them pioneered by the author to be fit for purpose and novel in the application, systematic insight into laser degradation modes such as catastrophic optical damage, and a wide range of technologies to increase the optical strength of diode lasers. Coverage of basic concepts and techniques of laser reliability engineering with details on a standard commercial high power laser reliability test program. *Semiconductor Laser Engineering Reliability and Diagnostics* reflects the extensive expertise of the author in the diode laser field both as a top scientific researcher as well as a key developer of high power highly reliable devices. With invaluable practical advice, this new reference book is suited to practising researchers in diode laser technologies and to postgraduate engineering students.

*Advanced Laser Diode Reliability* Massimo Vanzi, Laurent Bechou, Mitsuo Fukuda, Giovanna Mura, 2021-07-24. *Advanced Laser Diode Reliability* focuses on causes and effects of degradations of state of the art semiconductor laser diodes. It aims to provide a tool for linking practical measurements to physical diagnostics. To this purpose, it reviews the current technologies addressing their peculiar details that can promote specific failure mechanisms. Two sections will support this kernel: a Failure Analysis techniques, procedures and examples; b Device oriented laser modelling and parameter extraction. Talk about Natural continuity with the most widespread existing textbooks published by Mitsuo Fukuda. Present the extension to new failure mechanisms, new technologies, new application fields, new environments. Introduce a specific self-consistent model for the physical description of a laser diode expressed in terms of practically measurable quantities. *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. *Room-temperature-operation Visible-emission Semiconductor Diode Lasers* I. Ladany, H. Kressler, C. J. Nuese, 1977. **High-Power Diode Lasers** Roland Diehl, 2014-10-08. Starting from the basics of semiconductor lasers with emphasis on the generation of high optical output power, the reader is introduced in a tutorial way to all key technologies required to fabricate high power diode laser sources. Various applications

are exemplified

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