



LASER DIODE CONSTRUCTION

Semiconductor Diode Lasers

Eli Kapon



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Semiconductor Diode Lasers William Streifer, Michael Ettenberg, 1991 High-Power Diode Lasers Roland Diehl, 2000-09-04 With Contributions by Numerous Experts Selected Papers on Semiconductor Diode Lasers James J. Coleman, 1992 Semiconductor Lasers: Basic Physics, Technology, and Design Heinrich Rieck, 1970 *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 **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 **Semiconductor Diode Lasers** Ralph W. Campbell, Forrest M. Mims, 1972 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 make this an outstanding introduction to the subject **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 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 then 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* 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 **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 hand on text helps readers to develop

a feel for how to choose a laser diode characterize it and incorporate it into a microsystem

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

Semiconductor Lasers and Diode-based Light Sources for Biophotonics Peter E. Andersen, Paul Michael Petersen, 2018-11-28 Semiconductor lasers are small reliable low cost high performance and user friendly optical devices which make them highly suitable for a variety of biomedical applications

Semiconductor Lasers II Eli Kapon, 1999-01-12 This volume presents state of the art information on several important material systems and device structures employed in modern semiconductor lasers The first two chapters discuss several III V II VI and VI VI compound semiconductor material systems employed in diode lasers whose emission spectra cover the range from the blue to the mid infrared Subsequent chapters describe the elaboration of special laser structures designed for achieving narrow spectral linewidths and wavelength tunability as well as high power emission devices The last chapter covers the development of surface emitting diode lasers particularly vertical cavity structures In all five chapters the underlying device physics as well as the state of the art and future trends are discussed This book introduces the non expert to the design and fabrication issues involved in the development of these important laser devices In addition it reviews the current status of the different material systems and cavity configurations for the benefit of readers engaged in research in this field Useful background material related to the fundamentals of lasing in semiconductors can be found in the companion volume Semiconductor Lasers I Fundamentals Covers important recent advances in materials design fabrication and device structure of semiconductor lasers aspects not covered in previously existing literature Introduces the non expert to the subject Useful for professionals engaged in research and development Numerous schematic and data containing illustrations Written by leading experts in the field

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 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

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

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