

SEMICONDUCTOR LASERS II

Materials and Structures

Edited by Eli Kapon



OPTICS AND PHOTONICS



Semiconductor Lasers I: Materials And Structures

Jia-ming Liu



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Written by leading experts in the field **Handbook of Lasers** Marvin J. Weber, 2019-04-30 Lasers continue to be an amazingly robust field of activity Anyone seeking a photon source is now confronted with an enormous number of possible lasers and laser wavelengths to choose from but no single comprehensive source to help them make that choice The Handbook of Lasers provides an authoritative compilation of lasers their properties and original references in a readily accessible form Organized by lasing media solids liquids and gases each section is subdivided into distinct laser types Each type carries a brief description followed by tables listing the lasing element or medium host lasing transition and wavelength operating properties primary literature citations and for broadband lasers reported tuning ranges The importance and value of the Handbook of Lasers cannot be overstated Serving as both an archive and as an indicator of emerging trends it reflects the state of knowledge and development in the field provides a rapid means of obtaining reference data and offers a pathway to the literature It contains data useful for comparison with predictions and for developing models of processes and may reveal fundamental inconsistencies or conflicts in the data Handbook of Defence Electronics and Optronics Anil K. Maini, 2018-07-23 Handbook of Defence Electronics and Optronics Anil K Maini Former Director Laser Science and Technology Centre India First complete reference on defence electronics and optronics Fundamentals Technologies and Systems This book provides a complete account of defence electronics and optronics The content is broadly divided into three categories topics specific to defence electronics topics relevant to defence optronics and topics that have both electronics and optronics counterparts The book covers each of the topics in their entirety from fundamentals to advanced concepts military systems in use and related technologies thereby leading the reader logically from the operational basics of military systems to involved technologies and battlefield deployment and applications Key features Covers fundamentals operational aspects involved technologies and application potential of a large cross section of military systems Discusses emerging technology trends and development and deployment status of next generation military systems wherever applicable in each category of military systems Amply illustrated with approximately 1000 diagrams and photographs and around 30 tables Includes salient features technologies and deployment aspects of hundreds of military systems including military radios ground and surveillance radars laser range finder and target designators night vision devices EW and EO jammers laser guided munitions and military communications equipment and satellites Handbook of Defence Electronics and Optronics is an essential guide for graduate students R D scientists engineers engaged in manufacturing defence equipment and professionals handling the operation and maintenance of these systems in the Armed Forces 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

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Christopher C. Davis, 2014-03-20 Covering a broad range of topics in modern optical physics and engineering this textbook is invaluable for undergraduate students studying laser physics optoelectronics photonics applied optics and optical engineering This new edition has been re organized and now covers many new topics such as the optics of stratified media quantum well lasers and modulators free electron lasers diode pumped solid state and gas lasers imaging and non imaging optical systems squeezed light periodic poling in nonlinear media very short pulse lasers and new applications of lasers The textbook gives a detailed introduction to the basic physics and engineering of lasers as well as covering the design and operational principles of a wide range of optical systems and electro optic devices It features full details of important derivations and results and provides many practical examples of the design construction and performance characteristics of different types of lasers and electro optic devices **Photonic Devices** Jia-ming Liu, 2009-06-11 Photonic devices lie at the heart of the communications revolution and have become a large and important part of the electronic engineering field so much so that many colleges now treat this as a subject in its own right With this in mind the author has put together a unique textbook covering every major photonic device and striking a careful balance between theoretical and practical concepts The book assumes a basic knowledge of optics semiconductors and electromagnetic waves Many of the key background concepts are reviewed in the first chapter Devices covered include optical fibers couplers electro optic devices magneto optic devices lasers and photodetectors Problems are included at the end of each chapter and a solutions set is available The book is ideal for senior undergraduate and graduate courses but being device driven it is also an excellent engineers reference

Reliability Characterisation of Electrical and Electronic Systems, 2014-12-24 This book takes a holistic approach to reliability engineering for electrical and electronic systems by looking at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability for a range of devices The text describes the reliability behavior of electrical and electronic systems It takes an empirical scientific approach to reliability engineering to facilitate a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation After introducing the fundamentals and background to reliability theory the text moves on to describe the methods of reliability analysis and charactersation across a wide range of applications Takes a

holistic approach to reliability engineering Looks at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability Facilitates a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation II-VI Semiconductor Materials and their Applications Maria C. Tamargo, 2002-04-12 II VI Semiconductor Materials and Their Applications deals with II VI compound semiconductors and the status of the two areas of current optoelectronics applications blue green emitters and IR detectors Specifically the growth characterization materials and device issues for these two applications are described Emphasis is placed on the wide bandgap emitters where much progress has occurred recently The book also presents new directions that have potential future applications in optoelectronics for II VI materials In particular it discusses the status of dilute magnetic semiconductors for magnetic optical and electromagnetic devices nonlinear optical properties photorefractive effects and new materials and physics phenomena such as self organized low dimensional structures II_VI Semiconductor Materials and Their Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses **Introduction to Electronic Materials and Devices** Sergio M. Rezende, 2022-01-18 This textbook lays out the fundamentals of electronic materials and devices on a level that is accessible to undergraduate engineering students with no prior coursework in electromagnetism and modern physics The initial chapters present the basic concepts of waves and quantum mechanics emphasizing the underlying physical concepts behind the properties of materials and the basic principles of device operation Subsequent chapters focus on the fundamentals of electrons in materials covering basic physical properties and conduction mechanisms in semiconductors and their use in diodes transistors and integrated circuits The book also deals with a broader range of modern topics including magnetic spintronic and superconducting materials and devices optoelectronic and photonic devices as well as the light emitting diode solar cells and various types of lasers The last chapter presents a variety of materials with specific novel applications such as dielectric materials used in electronics and photonics liquid crystals and organic conductors used in video displays and superconducting devices for quantum computing Clearly written with compelling illustrations and chapter end problems Rezende's Introduction to Electronic Materials and Devices is the ideal accompaniment to any undergraduate program in electrical and computer engineering Adjacent students specializing in physics or materials science will also benefit from the timely and extensive discussion of the advanced devices materials and applications that round out this engaging and approachable textbook *Springer Handbook of Lasers and Optics* Frank Träger, 2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light

sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references **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 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 **Semiconductor-Laser Fundamentals** Weng W. Chow,Stephan W. Koch,1999-07-21 This in depth title discusses the underlying physics and operational principles of semiconductor lasers It analyzes the optical and electronic properties of the semiconductor medium in detail including quantum confinement and gain engineering effects The text also includes recent developments in blue emitting semiconductor lasers **Surface Science And Its Applications - Proceedings Of The 9th Latin American Congress** Pereira Osvaldo De Melo,Isaac Hernandez-calderon,2000-09-04 This book presents the proceedings of the Ninth Latin American Congress on Surface Science and Its Applications The topics include recent advances in catalysis electronic structural properties imaging and analysis of surfaces and interfaces growth and characterization of thin films and vacuum and instrumentation

Fundamentals of Microwave Photonics V. J. Urick,Keith J. Williams,Jason D. McKinney,2015-01-30 A comprehensive resource to designing andconstructing analog photonic links capable of high RFperformance Fundamentals of Microwave Photonics provides acomprehensive description of analog optical links from basicprinciples to applications The book is organized into fourparts The first begins with a historical perspective of microwavephotonics listing the advantages of fiber optic links anddelineating analog vs digital links The second section coversbasic principles associated with microwave photonics in both the RFand optical domains The third focuses on analog modulationformats starting with a concept deriving the RF performancemetrics from basic physical models and then analyzing issuesspecific to each format The final part examines applications ofmicrowave photonics including analog receive mode systems high power photodiodes applications radio astronomy and arbitrarywaveform generation Covers fundamental concepts including basic treatments ofnoise sources of distortion and propagation effects Provides design equations in easy to use forms as quickreference Examines analog photonic link architectures along with theirapplication to RF systems A thorough treatment of microwave photonics

Fundamentals of Microwave Photonics will be an essential resource in the laboratory field or during design meetings. The authors have more than 55 years of combined professional experience in microwave photonics and have published more than 250 associated works. Handbook of Laser Wavelengths Marvin J. Weber, 2018-10-08 This volume represents the most complete up to date compilation of wavelengths of lasers in all media. Divided by type solid liquid and gas and listed in order of increasing wavelength. Handbook of Laser Wavelengths includes crystalline paramagnetic ion lasers glass lasers color center lasers semiconductor lasers polymer lasers liquid and solid state dye lasers rare earth liquid lasers neutral atom ion and molecular gas lasers extreme ultraviolet and soft X ray lasers free electron lasers nuclear pumped lasers lasers in nature lasers without inversion. Brief descriptions of each type of laser are presented followed by tables listing the laser wavelength, lasing element or medium, host, transition and primary literature citations. A special section on commercial lasers is an added feature. Handbook of Laser Wavelengths singularly serves as the essential reference for scientists and engineers searching for laser sources for specific applications as well as a survey of the developments that have occurred since the advent of the laser.

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.

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