

Highly Coherent Semiconductor Lasers

Motoichi Ohtsu

Highly Coherent Semiconductor Lasers

Andre N. Luiten



Highly Coherent Semiconductor Lasers:

Highly Coherent Semiconductor Lasers Motoichi Ohtsu, 1992 This book shows you the principles of operation device structure noise properties and a wide range of possible application systems of semiconductor lasers and describes methods for improving their coherence Supported by 300 equations and 169 illustrations [Highly Coherent Semiconductor Laser](#)

Ohtsu Motoichi, *Laser Spectroscopy - Proceedings Of The X International Conference* M Ducloy, G Camy, E

Giacobino, 1992-03-01 The tenth international conference on Laser Spectroscopy covered a broad spectrum of subjects related to laser physics It featured novel results on very basic problems such as laser cooling atomic interferometry QED quantum and nonlinear optics as well as new laser sources and new methods for laser spectroscopy These were presented together with their application to the study of atoms molecules surfaces and condensed matter **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 featured 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 **High-Power Diode Lasers**

Roland Diehl, 2003-07-01 Methods of design and fabrication of high power diode lasers using proven semiconductor technologies are described in this book The latter include epitaxy and optical lithography mounting on heat sinks beam forming with micro optics and coupling to optical fibers and reliability testing Direct applications of high power diode lasers in materials processing and for pumping hitherto unknown solid state laser systems are presented in a comprehensive fashion Thus this book is an invaluable source of information for all scientists and engineers designing laser systems and applying the laser as a reliable and economic tool in a multitude of environments **Tunable External Cavity Diode**

Lasers Cunyun Ye, 2004-12-01 This is the first book on tunable external cavity semiconductor diode lasers providing an up to date survey on the physics technology and performance of widely applicable coherent radiation sources of tunable external cavity diode lasers The purpose is to provide a thorough account of the state of the art of tunable external cavity diode lasers which is achieved by combining this account with basic concepts of semiconductor diode lasers and its tunability with monolithic structures The practical and accessible information in this volume will enable the reader to study external cavity diode laser to build up the systems of external cavity diode laser as well as to develop advanced systems for their particular

applications This book will appeal to undergraduate and graduate students scientists and engineers alike

Lasers and Optical Instrumentation S. Nagabhushana,N. Sathyanarayana,2010 Lasers and Optical Instrumentation covers B E M E and M Sc Electronics degree courses The text covers basic principles of lasers types of lasers and their characteristics laser applications in engineering and medicine Further the book includes extensive coverage of optoelectronic devices fibre optic communication and fibre optic sensors The book includes many solved problems throughout the text to support the theoretical concepts and help in understanding of underlying principles Review questions have been included at the end of each chapter to practise and self study Spread in Ten Chapters the book broadly covers Characteristics of lasers mode locking Q switching powerful lasers frequency stabilisation Overview of applications of lasers in science engineering and medicine reliability and safety aspects Laser interferometer laser strain gauges laser Doppler velocimeter laser ranging mechanical cutting welding scribing holography Applications of Raman spectroscopy Application of laser devices optical fibers etc in fiber optic communications Integrated optics radiation source transmission link detector Fibre optical sensors non intrusively displacements pressure temperature high currents angular velocity Future perspectives nanophotonics quantum dots photonic crystals

Vertical External Cavity Surface Emitting Lasers Michael Jetter,Peter Michler,2021-09-16 Vertical External Cavity Surface Emitting Lasers Provides comprehensive coverage of the advancement of vertical external cavity surface emitting lasers Vertical external cavity surface emitting lasers VECSELs emit coherent light from the infrared to the visible spectral range with high power output Recent years have seen new device developments such as the mode locked integrated MIXSEL and the membrane external cavity surface emitting laser MECSEL expand the application of VECSELs to include laser cooling spectroscopy telecommunications biophotonics and laser based displays and projectors In Vertical External Cavity Surface Emitting Lasers VECSEL Technology and Applications leading international research groups provide a comprehensive fully up to date account of all fundamental and technological aspects of vertical external cavity surface emitting lasers This unique book reviews the physics and technology of optically pumped disk lasers and discusses the latest developments of VECSEL devices in different wavelength ranges Topics include OP VECSEL physics continuous wave CW lasers frequency doubling carrier dynamics in SESAMs and characterization of nonlinear lensing in VECSEL gain samples This authoritative volume Summarizes new concepts of DBR free and MECSEL lasers for the first time Covers the mode locking concept and its application Provides an overview of the emerging concept of self mode locking Describes the development of next generation OPS laser products Vertical External Cavity Surface Emitting Lasers VECSEL Technology and Applications is an invaluable resource for laser specialists semiconductor physicists optical industry professionals spectroscopists telecommunications engineers and industrial physicists

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 *PHYSICAL METHODS, INSTRUMENTS AND MEASUREMENTS - Volume II* Yuri Mikhailovich Tsipenyuk ,2009-04-15 Physical Methods Instruments and Measurements theme is a component of the Encyclopedia of Physical Sciences Engineering and Technology Resources which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty Encyclopedias The Theme provides a complete survey of the present status of our knowledge of modern physical instruments and measurements It is organized in the following main topics Measurements and Measurement Standards Sources of Particles and Radiation Detectors and Sensors Imaging and Characterizing Trace Element Analysis Technology of Physical Experiments Applications of Measurements and Instrumentation which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Long-Wavelength Infrared Semiconductor Lasers Hong K. Choi,2004-03-18 Long wavelength Infrared Semiconductor Lasers provides a comprehensive review of the current status of semiconductor coherent sources emitting in the mid to far infrared spectrum and their applications It includes three topics not covered in any previous book far infrared emission from photo mixers as well as from hot hole lasers and InP based lasers emitting beyond two micrometers Semiconductor lasers emitting at more than two micrometers have many applications such as in trace gas analysis environmental monitoring and industrial process control Because of very rapid progress in recent years until this book no comprehensive information beyond scattered journal articles is available at present *Frequency Measurement and Control* Andre N.

Luiten,2003-07-01 This text on precision frequency measurement and its key enabling techniques includes reviews written by some of the most experienced researchers in their respective fields This text should prove useful to researchers just entering the field of frequency metrology and standards or equally well to the experienced practitioner *Advanced Experimental Methods for Noise Research in Nanoscale Electronic Devices* Josef Sikula,Michael Levinshtein,2006-02-21 A discussion of recently developed experimental methods for noise research in nanoscale electronic devices conducted by specialists in transport and stochastic phenomena in nanoscale physics The approach described is to create methods for experimental observations of noise sources their localization and their frequency spectrum voltage current and thermal dependences Our current knowledge of measurement methods for mesoscopic devices is summarized to identify directions for future research related to downscaling effects The directions for future research into fluctuation phenomena in quantum dot and quantum wire devices are specified Nanoscale electronic devices will be the basic components for electronics of the 21st century From

this point of view the signal to noise ratio is a very important parameter for the device application Since the noise is also a quality and reliability indicator experimental methods will have a wide application in the future

Tunable Laser Optics F.J. Duarte, 2017-12-19 Broadly tunable lasers have had and continue to have an enormous impact in many and diverse fields of science and technology From a renaissance in spectroscopy to laser guide stars and laser cooling the nexus is the tunable laser Tunable Laser Optics offers a transparent and comprehensive treatment of the physics of tunable laser optics based on a detailed description of first principles Authored by a leading expert in the field the book covers the optics and optical principles needed to build lasers the optics instrumentation necessary to characterize laser emission and laser based optical instrumentation addressing key topics such as Dirac's notation the interferometric equation the uncertainty principle pulse compression and tunable narrow linewidth lasers This revised expanded and improved Second Edition Contains new and additional material on tunable lasers and quantum optics Explains the first principles of tunable laser optics in a clear and concise manner Presents an explicit exposition of the relevant theory without the use of short cuts Employs numerous examples case studies and figures to illustrate important concepts Includes carefully designed problems of direct practical significance to stimulate application Emphasizing the utilitarian aspects of the optics and theory Tunable Laser Optics Second Edition provides valuable insight into the optics and the trade offs involved in the design and construction of tunable lasers and optical devices It makes an ideal textbook for advanced undergraduate level and graduate level optics courses for physics and engineering students as well as a handy reference for researchers and experimentalists

Semiconductor Integrated Optics for Switching Light Charlie Ironside, 2017-09-12 This book covers the technology of switching or modulating light in semiconductor optical waveguides Currently a key function for optical communications systems is the conversion of data from an electrical signal to an optical signal for transmission in very low loss optical fibres and the converse process of optical to electrical conversion the O E O data conversion This conversion between electronic and photonic signals imposes an energy consumption overhead on optical communication systems So many research workers have been attracted to ultrafast all optical switching of data in different formats As a way of introduction to all optical switching in semiconductor waveguides the book covers the electro optic effect electroabsorption and electrorefraction effects that can be used in semiconductor optical modulation devices But the book focuses on all optical switching using second and third order optical nonlinearities in AlGaAs optical waveguides It covers a variety of device configurations including integrated nonlinear couplers and Mach Zehnder interferometers Further it provides design software in suit of Mathematica notebooks that can be used to explore the device design

Off-Shell Applications in Nanophotonics Motoichi Ohtsu, 2021-07-24 Off shell science deals with the quantum field in which the dispersion relation between energy and momentum is invalid A typical example of such the quantum field is the dressed photon DP that creates by the interaction among photons electrons and phonons in a nano particle This field is complementary to the on shell quantum field

photons in a macroscopic space

Off Shell Applications in Nanophotonics Dressed Photon Science and Technology reviews the experimental theoretical studies and shows the route that should be taken to establish off shell science in the future A variety of phenomena originate from the DP and phenomena analogous to them have been found among physical chemical and biological phenomena This indicates that off shell quantum fields are universal and essential constituent elements of nature By noting this readers will be able to use off shell science to develop new technologies This book presents i the reasons why the off shell scientific theory is required ii the nature of the dressed photon by presenting experimental results iii tentative theoretical description of the dressed photon iv disruptive innovations nano optical devices nano fabrication technology energy conversion technology and silicon light emitting diodes lasers and v genuine theoretical approaches based on spatio temporal vortex hydrodynamics quantum probability quantum measurement and micro macro duality It will appeal to materials scientists engineers and physicists working in the areas of optics and photonics Explains the fundamental concepts behind off shell science and how it differs from traditional nanophotonics Presents a range of simulation models demonstrating major off shell models Assesses the major challenges for researchers wanting to employ off shell based experimental techniques

Unlocking Dynamical Diversity Deborah M. Kane, K. Alan Shore, 2005-11-01 Applications of semiconductor lasers with optical feedback systems are driving rapid developments in theoretical and experimental research The very broad wavelength gain bandwidth of semiconductor lasers combined with frequency filtered strong optical feedback create the tunable single frequency laser systems utilised in telecommunications environmental sensing measurement and control Those with weak to moderate optical feedback lead to the chaotic semiconductor lasers of private communication This resource illustrates the diversity of dynamic laser states and the technological applications thereof presenting a timely synthesis of current findings and providing the roadmap for exploiting their future potential Provides theory based explanations underpinned by a vast range of experimental studies on optical feedback including conventional phase conjugate and frequency filtered feedback in standard commercial and single stripe semiconductor lasers Includes the classic Lang Kobayashi equation model through to more recent theory with new developments in techniques for solving delay differential equations and bifurcation analysis Explores developments in self mixing interferometry to produce sub nanometre sensitivity in path length measurements Reviews tunable single frequency semiconductor lasers and systems and their diverse range of applications in sensing and optical communications Emphasises the importance of synchronised chaotic semiconductor lasers using optical feedback and private communications systems *Unlocking Dynamical Diversity* illustrates all theory using real world examples gleaned from international cutting edge research Such an approach appeals to industry professionals working in semiconductor lasers laser physics and laser applications and is essential reading for researchers and postgraduates in these fields

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 Tunable Laser Applications F.J. Duarte,2016-02-22 Broadly tunable lasers continue to have a tremendous impact in many and diverse fields of science and technology From a renaissance in laser spectroscopy to Bose Einstein condensation the one nexus is the tunable laser Tunable Laser Applications describes the physics and architectures of widely applied tunable laser sources Fully updated and ex Lasers and Electro-optics 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

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