

ISSN 0306-8919

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# Optical and Quantum Electronics

Volume 45 Number 9  
September 2013

 Springer

# Quantum Electronics Volume 15 Part A

**Peter Vasil'ev**



## Quantum Electronics Volume 15 Part A:

**Quantum Electronics** ,1979-09-07 Quantum Electronics      QUANTUM ELECTRONICS (Volume 15). CL TANG (Ed),1979      **Handbook of Molecular Lasers** Peter Cheo,2018-10-24 Optical science engineering and technology have grown rapidly in the last decade so that today optical engineering has emerged as an important discipline in its own right This series is devoted to discussing topics in optical engineering at a level that will be useful to those working in the field or attempting to design systems that are based on optical techniques or that have significant optical subsystems

Spectrometric Techniques George A. Vanasse,2013-10-22 Spectrometric Techniques Volume II provides information pertinent to vacuum ultraviolet techniques to complete the demonstration of the diversity of methods available to the spectroscopist interested in the ultraviolet visible and infrared spectral regions This book discusses the specific aspects of the technique of Fourier transform spectroscopy Organized into five chapters this volume begins with an overview of the large number of systematic effects in the recording of an interferogram This text then examines the design approach for a Fourier transform spectrometer with focus on optics Other chapters provide a brief background to outline the scientific usefulness of Fourier spectrometers and present a calculation giving the optical path difference required to solve a Doppler broadened spectral feature This book discusses as well the importance of good mechanical design to minimize sampling error contributions by mechanical mechanisms and resonances The final chapter deals with photon counting techniques to measure dispersed radiation This book is a valuable resource for spectroscopists      **Lasers and Masers: a Continuing Bibliography** United States. National Aeronautics and Space Administration,1965      Lasers and Masers ,1966      Sensors and Microsystems Piero Malcovati,Andrea Baschirotto,Arnaldo d'Amico,Corrado Natale Di,2010-03-14 Sensors and Microsystems contains a selection of papers presented at the 14th Italian conference on sensors and microsystems It provides a unique perspective on the research and development of sensors microsystems and related technologies in Italy The scientific values of the papers also offers an invaluable source to analysts intending to survey the Italian situation about sensors and microsystems In an interdisciplinary approach many aspects of the disciplines are covered ranging from materials science chemistry applied physics electronic engineering and biotechnologies Further details of the conference and its full program at the website <http://www.microelectronicsevents.com> AISEM      *Principles Of Semiconductor Laser Diodes And Amplifiers: Analysis And Transmission Line Laser Modeling* Hooshang Ghafouri-shiraz,2003-12-15 Optical communications technology is growing increasingly in importance with a rapid pace of development Innovative optical devices have emerged from the integration of semiconductor laser diodes amplifiers and filters with optical waveguide technology This well researched volume traces the evolution of semiconductor laser amplifiers SLAs from these technologies Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems This book will provide engineering and science students with a basic

understanding of laser diode and optical amplification through the analysis of the performance characteristics of these devices both in theory and application Practising device engineers wishing to consolidate their knowledge in lightwave technology will also find this book an invaluable reference a      **Spectrophotometry** ,2014-06-28 This volume is an essential handbook for anyone interested in performing the most accurate spectrophotometric or other optical property of materials measurements The chapter authors were chosen from the leading experts in their respective fields and provide their wisdom and experience in measurements of reflectance transmittance absorptance emittance diffuse scattering color and fluorescence The book provides the reader with the theoretical underpinning to the methods the practical issues encountered in real measurements and numerous examples of important applications Written by the leading international experts from industry government and academia Written as a handbook with in depth discussion of the topics Focus on making the most accurate and reproducible measurements Many practical applications and examples      *Ultrafast Diode Lasers* Peter Vasil'ev,1995 This timely book combines theory applications and projections on ultrafast diode lasers UDL A comprehensive treatment of UDLs from basic physical principles to applications in optical fiber communications and ultrafast electronics

**Fiber-Optic Sensors for Biomedical Applications** Daniele Tosi,Guido Perrone,2017-12-31 This authoritative new resource presents fiber optic sensors and their applications in medical device design and biomedical engineering Readers gain an understanding of which technology to use and adopt and how to connect technologies with their respective applications This book explores the innovation of diagnostics and how to use diagnostic tools Principles of fiber optic sensing are covered and include details about intensity based sensors fiber bragg gratings distributed sensors and fabry perot interferometers This book explores interrogation software standards for medical sensors and discusses protocols and tools for validation Various medical device engineering and applications are examined including sensor catheterization cardiovascular sensors diagnostic in gastroscopy urology neurology sensing in thermal ablation Applications and detection of SPR sensors are presented along with minimally invasive robotic surgery smart textiles wearable sensors and fiber optic spectrometric sensors This is a one stop reference on fiber optic sensors for biomed applications      **Neutron Scattering - Magnetic and Quantum Phenomena** ,2015-11-29 Neutron Scattering Magnetic and Quantum Phenomena provides detailed coverage of the application of neutron scattering in condensed matter research The book s primary aim is to enable researchers in a particular area to identify the aspects of their work where neutron scattering techniques might contribute conceive the important experiments to be done assess what is required to carry them out write a successful proposal for one of the major user facilities and perform the experiments under the guidance of the appropriate instrument scientist An earlier series edited by Kurt Sk ld and David L Price and published in the 1980s by Academic Press as three volumes in the series *Methods of Experimental Physics* was very successful and remained the standard reference in the field for several years This present work has similar goals taking into account the advances in experimental techniques over the past quarter

century for example neutron reflectivity and spin echo spectroscopy and techniques for probing the dynamics of complex materials of technological relevance This volume complements Price and Fernandez Alonso Eds Neutron Scattering Fundamentals published in November 2013 Covers the application of neutron scattering techniques in the study of quantum and magnetic phenomena including superconductivity multiferroics and nanomagnetism Presents up to date reviews of recent results aimed at enabling the reader to identify new opportunities and plan neutron scattering experiments in their own field Provides a good balance between theory and experimental techniques Provides a complement to Price and Fernandez Alonso Eds Neutron Scattering Fundamentals published in November 2013     The Laser Literature Kiyo Tomiyasu,2013-11-09     **Principles of Lasers** Orazio Svelto,2012-12-06 This second edition appearing about twenty years after the discovery of the laser is a substantially revised version of the first edition It is like the first aimed at both classroom teaching and self study by technical personnel interested in learning the principles of laser operation In preparing the second edition the hope has been that both these aims will be better served as a result of the various improvements made The main changes have been made with the following aims in mind i To update the book Thus new topics have been added in particular on various new types of lasers e g rare gas halide excimer lasers color center lasers and free electron lasers while on the other hand some topics have been given less emphasis again this applies particularly to some types of lasers e g the ruby laser Updating is especially important in the area of laser applications and the chapter on this topic has therefore been completely rewritten ii To make some improvements to the logical consistency of the book by rearranging material and adding new material Thus a few topics have been moved from one section to another and a new chapter entitled Laser Beam Transformation has been added iii To further reduce the mathematical content placing greater emphasis on physical descriptions of phenomena     *Vacuum Ultraviolet Spectroscopy II* ,1998-09-04 This volume is for practitioners experimentalists and graduate students in applied physics particularly in the fields of atomic and molecular physics who work with vacuum ultraviolet applications and are in need of choosing the best type of modern instrumentation It provides first hand knowledge of the state of the art equipment sources and gives technical information on how to use it along with a broad reference bibliography     **Crystal Structure and Morphology** ,1980-07-21 Crystal Structure and Morphology     **Recent Advances in Nanofabrication Techniques and Applications** Bo Cui,2011-12-02 Nanotechnology has experienced a rapid growth in the past decade largely owing to the rapid advances in nanofabrication techniques employed to fabricate nano devices Nanofabrication can be divided into two categories bottom up approach using chemical synthesis or self assembly and top down approach using nanolithography thin film deposition and etching techniques Both topics are covered though with a focus on the second category This book contains twenty nine chapters and aims to provide the fundamentals and recent advances of nanofabrication techniques as well as its device applications Most chapters focus on in depth studies of a particular research field and are thus targeted for researchers though some chapters focus on the basics of lithographic

techniques accessible for upper year undergraduate students Divided into five parts this book covers electron beam focused ion beam nanoimprint deep and extreme UV X ray scanning probe interference two photon and nanosphere lithography

High-Speed Photonics Interconnects Lukas Chrostowski,Krzysztof Iniewski,2017-12-19 Dramatic increases in processing power have rapidly scaled on chip aggregate bandwidths into the Tb s range This necessitates a corresponding increase in the amount of data communicated between chips so as not to limit overall system performance To meet the increasing demand for interchip communication bandwidth researchers are investigating the use of high speed optical interconnect architectures Unlike their electrical counterparts optical interconnects offer high bandwidth and negligible frequency dependent loss making possible per channel data rates of more than 10 Gb s High Speed Photonics Interconnects explores some of the groundbreaking technologies and applications that are based on photonics interconnects From the Evolution of High Speed I O Circuits to the Latest in Photonics Interconnects Packaging and Lasers Featuring contributions by experts from academia and industry the book brings together in one volume cutting edge research on various aspects of high speed photonics interconnects Contributors delve into a wide range of technologies from the evolution of high speed input output I O circuits to recent trends in photonics interconnects packaging The book discusses the challenges associated with scaling I O data rates and current design techniques It also describes the major high speed components channel properties and performance metrics The book exposes readers to a myriad of applications enabled by photonics interconnects technology Learn about Optical Interconnect Technologies Suitable for High Density Integration with CMOS Chips This richly illustrated work details how optical interchip communication links have the potential to fully leverage increased data rates provided through complementary metal oxide semiconductor CMOS technology scaling at suitable power efficiency levels Keeping the mathematics to a minimum it gives engineers researchers graduate students and entrepreneurs a comprehensive overview of the dynamic landscape of high speed photonics interconnects     **Methods of the Physics of Porous Media** ,1999-07-09 Over the past 25 years the field of VUV physics has undergone significant developments as new powerful spectroscopic tools VUV lasers and optical components have become available This volume is aimed at experimentalists who are in need of choosing the best type of modern instrumentation in this applied field In particular it contains a detailed chapter on laboratory sources This volume provides an up to date description of state of the art equipment and techniques and a broad reference bibliography It treats phenomena from the standpoint of an experimental physicist whereby such topics as imaging techniques NMR X ray ultrasonic etc computer modeling eletro kinetic phenomena diffusion non linear wave propagation surface adsorption desorption convective mixing and fracture are specifically addressed     **Vacuum Ultraviolet Spectroscopy I** ,1998-08-17 This volume is for practitioners experimentalists and graduate students in applied physics particularly in the fields of atomic and molecular physics who work with vacuum ultraviolet applications and are in need of choosing the best type of modern instrumentation It provides first hand knowledge of the state of the art equipment sources

and gives technical information on how to use it along with a broad reference bibliography Key Features Aimed at experimentalists who are in need of choosing the best type of modern instrumentation in this applied field Contains a detailed chapter on laboratory sources Provides an up to date description of state of the art equipment and techniques Includes a broad reference bibliography

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