

WORLD SCIENTIFIC LOW PRICE EDITION

Fundamentals of Laser Optoelectronics

Second Edition

See Leang Chin
Huailiang Xu
Shuai Yuan



World Scientific

Fundamentals Of Laser Optoelectronics

AW Rasmussen



Fundamentals Of Laser Optoelectronics:

Fundamentals Of Laser Optoelectronics (Second Edition) See Leang Chin, Huailiang Xu, Shuai Yuan, 2022-08-18 This textbook is based on a course given by the first named author to third and fourth year undergraduate students from physics engineering physics and electrical engineering The purpose is to introduce and explain some of the fundamental principles underlying laser beam control in optoelectronics especially those in relation to optical anisotropy which is at the heart of many optical devices The book attempts to give the reader the background knowledge needed to work in a laser optoelectronic or photonic environment and to manage and handle laser beam equipment with ease In this edition recent research results on modern technologies and instruments relevant to laser optoelectronics have been added to each chapter New material include chirped pulse amplification for petawatt lasers optical anisotropy physical explanations for group velocity dispersion group delay dispersion and third order dispersion an introduction of different types of laser systems and both optical isotropy and anisotropy in different types of harmonic generation Theories based upon mode locking and chirped pulse amplifications have become increasingly more important It is thus necessary that students learn all these in a course devoted to laser optoelectronics As such Chapter 12 is now devoted to mode locking and carrier envelope phase locking A new chapter Chapter 13 which focuses on chirped pulse amplification has also been added

Fundamentals Of Laser Optoelectronics See Leang Chin, 1989-11-01 This book is based on a course given by the author to third and fourth year undergraduate students from physics engineering physics and electrical engineering The purpose is to introduce and explain some of the fundamental principles underlying laser beam control in optoelectronics especially those in relation to optical anisotropy which is at the heart of many optical devices The contents of the book are scattered in many sources and there seems to be no single source available at the undergraduate level That is why the present book is written The book attempts to give the reader a good background needed for working in a laser optoelectronic or photonic laboratory so that the use of equipment and the control of laser beams can be mastered without difficulty

Fundamentals of Laser Optoelectronics S. L. Chin, 1989 This book is based on a course given by the author to third and fourth year undergraduate students from physics engineering physics and electrical engineering The purpose is to introduce and explain some of the fundamental principles underlying laser beam control in optoelectronics especially those in relation to optical anisotropy which is at the heart of many optical devices The contents of the book are scattered in many sources and there seems to be no single source available at the undergraduate level That is why the present book is written The book attempts to give the reader a good background needed for working in a laser optoelectronic or photonic laboratory so that the use of equipment and the control of laser beams can be mastered without difficulty

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 lasers and optoelectronics detailing both existing and emerging applications in industry medical diagnostics and therapeutics scientific studies and Defence simple explanation of the concepts and essential information on electronics and circuitry related to laser systems illustration of numerous solved and unsolved problems practical examples chapter summaries self evaluation exercises and a comprehensive list of references for further reading This volume is a valuable design guide for R D engineers and scientists engaged in design and development of lasers and optoelectronics systems and technicians in their operation and maintenance The tutorial approach serves as a useful reference for under graduate and graduate students of lasers and optoelectronics also PhD students in electronics optoelectronics and physics

Semiconductor-Laser Fundamentals

Weng W. Chow, Stephan W. Koch, 2013-03-09 Since Fall of 1993 when we completed the manuscript of our book Semiconductor Laser Physics W W Chow S W Koch and M Sargent III Springer Berlin Heidelberg 1994 many new and exciting developments have taken place in the world of semiconductor lasers Novel laser and amplifier structures were developed and others for example the VCSEL vertical cavity surface emitting laser and monolithic MOPA master oscillator power amplifier made the transition from research and development to production When investigating some of these systems we discovered instances when device performance and thus design depend critically on details of the gain medium properties e g spectral shape and carrier density dependence of the gain and refractive index New material systems were also introduced with optical emission wave lengths spanning from the mid infrared to the ultraviolet Particularly note worthy are laser and light emitting diodes based on the wide bandgap group III nitride and II VI compounds These devices emit in the visible to ultra violet wavelength range which is important for the wide variety of optoelectronic applications While these novel semiconductor laser materials show many similarities with the more conventional near infrared systems they also possess rather different material parameter combinations These differences appear as band structure modifications and as increased importance of Coulomb effects such that e g excitonic signatures resulting from the attractive electron hole interaction are generally significantly more prominent in the wide bandgap systems

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 **Semiconductor Laser Fundamentals** Toshiaki Suhara,2004-03-16 Ranging from fundamental theoretical concepts to advanced device technologies this reference text explores the engineering characteristics and performance of specific semiconductor lasers It defines key principles in electromagnetics optoelectronics and laser implementation for novel applications in optical communications storage processing measurement and sensing This text prepares students for advanced experimental and theoretical research in semiconductor laser technology and provides the only comprehensive systematic and concise description of semiconductor lasers available for an understanding of the physics and parameters of laser operation and function *Optoelectronics for Low-Intensity Conflicts and Homeland Security* Anil Maini,2018-11-30 This authoritative new resource provides an overview of the deployment of various devices in systems in actual field conditions and efficacy established in warfare The book covers laser and optronic technologies that have evolved over the years to build practical devices and systems for use in Homeland Security and low intensity conflict scenarios Readers will be able to assess combat and battle worthiness of various available devices and systems This book covers state of the art and emerging trends in various optoelectronics technologies having applications in Homeland Security It provides information on operational aspects deployment scenarios and actual usage of laser and optoelectronics based technologies for low intensity conflicts offering insight into the utility of each technology device for a given operational requirement This book evaluates the merits of various laser and optoelectronic sensor based technologies intended for low intensity conflict operations including counter insurgency and anti terrorist operations It is a useful reference for those specializing in defense electronics and optronics and professionals in the defence industry involved in operation and maintenance of laser based security equipment Packed with tables photographs and a comprehensive list of references in every chapter this is the only book that covers all topics related to Laser and Optoelectronics devices intended for low intensity conflict operations in a single volume

An Introduction to Optoelectronic Sensors Giancarlo C. Righini,2009 Preface Part I Optoelectronic Sensors Technologies 1 Fiber and Integrated Optics Sensors Fundamentals and Applications G C Righini A G Mignani I Cacciari and M Brenci 1 Introduction 2 Fiber and Integrated Optics Fundamentals of Waveguiding 3 Waveguide Sensors Basic Working Principle 4 Fiber Optic Sensors 5 Long Period Optical Fiber Grating Sensors 6 Micro structured Fiber Sensors 7 Integrated Optic Sensors 8 Conclusions References 2 Fiber Bragg Grating Sensors Industrial Applications C Ambrosino A Iadicicco S Campopiano A Cutolo M Giordano and A Cusano 1 Introduction 2 Fiber Bragg Gratings History 3 Fiber Bragg Gratings as Sensors 4 Civil Applications 5 Aerospace Applications 6 Energy Applications 7 Oil and Gas Applications 8 Transport Applications 9 Underwater Applications 10 Perspective and Challenges References 3 Distributed Optical Fiber Sensors R Bernini A Minardo and L Zeni 1 Introduction 2 Linear Backscattering Systems 3 Non Linear Backscattering Systems 4 Non Linear Forward Scattering Systems 5 Conclusions References 4 Lightwave Technologies for Interrogation Systems of Fiber

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Military Laser Technology and Systems David H. Titterton, 2015-03-01 This new resource provides an insight into the physical principles of the device technology that underpins many laser based military systems in one form or another From this knowledge a deeper understanding of the fundamental requirements and the potential performance as well as limitations of such systems may be assessed given the appropriate operational parameters Engineers and students are provided with practical advice on how to evaluate laser devices and systems operate them safely and train with them

Basics of Laser Physics Karl F. Renk, 2012-02-09 Basics of Laser Physics provides an introductory presentation of the field of all types of lasers It contains a general description of the laser a theoretical treatment and a characterization of its operation as it deals with gas solid state free electron and semiconductor lasers and furthermore with a few laser related topics The different subjects are connected to each other by the central principle of the laser namely that it is a self oscillating system Special emphasis is put on a uniform treatment of gas and solid state lasers on the one hand and semiconductor lasers on the other hand The discussions and the treatment of equations are presented in a way that a reader can immediately follow The book addresses undergraduate and graduate students of science and engineering Not only should it enable instructors to prepare their lectures but it can be helpful to students for preparing for an examination

Laser Spectroscopy Wolfgang Demtröder, 2008-07-23 Keeping abreast of the latest techniques and applications this new edition of the standard reference

and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material This new edition has been completely revised especially the chapters on non linear spectroscopy ion trapping ultra short laser pulses and new developments Fifty new figures illustrate the newest developments and results The author is one of the most renowned experts in this area and no other book with this broad scope is available

Reliability of Semiconductor Lasers and Optoelectronic Devices Robert Herrick, Osamu Ueda, 2021-03-06 Reliability of Semiconductor Lasers and Optoelectronic Devices simplifies complex concepts of optoelectronics reliability with approachable introductory chapters and a focus on real world applications This book provides a brief look at the fundamentals of laser diodes introduces reliability qualification and then presents real world case studies discussing the principles of reliability and what occurs when these rules are broken Then this book comprehensively looks at optoelectronics devices and the defects that cause premature failure in them and how to control those defects Key materials and devices are reviewed including silicon photonics vertical cavity surface emitting lasers VCSELs InGaN LEDs and lasers and AlGaIn LEDs covering the majority of optoelectronic devices that we use in our everyday lives powering the Internet telecommunication solid state lighting illuminators and many other applications This book features contributions from experts in industry and academia working in these areas and includes numerous practical examples and case studies This book is suitable for new entrants to the field of optoelectronics working in R D Includes case studies and numerous examples showing best practices and common mistakes affecting optoelectronics reliability written by experts working in the industry Features the first wide ranging and comprehensive overview of fiber optics reliability engineering covering all elements of the practice from building a reliability laboratory qualifying new products to improving reliability on mature products Provides a look at the reliability issues and failure mechanisms for silicon photonics VCSELs InGaN LEDs and lasers AlGaIn LEDs and more

Fundamentals of Laser Optics Ken'ichi Iga, Richard Bryant Miles, 1994 Developed from a lecture series for graduate and advanced undergraduate students in information processing and applied electronics sets out the fundamental principles and optical behavior of lasers that need to be understood for industrial laser use Annotation copyright Book News Inc Portland Or

Semiconductor Lasers I Eli Kapon, 1999-01-12 This book covers the device physics of semiconductor lasers in five chapters written by recognized experts in this field The volume begins by introducing the basic mechanisms of optical gain in semiconductors and the role of quantum confinement in modern quantum well diode lasers Subsequent chapters treat the effects of built in strain one of the important recent advances in the technology of these lasers and the physical mechanisms underlying the dynamics and high speed modulation of these devices The book concludes with chapters addressing the control of photon states in squeezed light and microcavity structures and electron states in low dimensional quantum wire and quantum dot lasers The book offers useful information for both readers unfamiliar with semiconductor lasers through the introductory parts of each chapter as well as a state of the art discussion of some of the

most advanced semiconductor laser structures intended for readers engaged in research in this field This book may also serve as an introduction for the companion volume Semiconductor Lasers II Materials and Structures which presents further details on the different material systems and laser structures used for achieving specific diode laser performance features Introduces the reader to the basics of semiconductor lasers Covers the fundamentals of lasing in semiconductors including quantum confined and microcavity structures Beneficial to readers interested in the more general aspects of semiconductor physics and optoelectronic devices such as quantum confined heterostructures and integrated optics Each chapter contains a thorough introduction to the topic geared toward the non expert followed by an in depth discussion of current technology and future trends Useful for professionals engaged in research and development Contains numerous schematic and data containing illustrations

Optical Fiber Theory Pierre-A. B[]langer,1993 This book describes the electromagnetic theory for the propagating modes of dielectric guides with the objective of understanding the applications of these guides to a telecommunication system Every book on classical electromagnetism introduces the metallic waveguides as an example of application of the Maxwell equations with boundary conditions A few books summarily describe the dielectric guides Nevertheless following the applications of these guides in the form of optical fibers it has become essential for a course on applied electromagnetism to cover this theory and emphasize on the dispersion minimisation which allows an extreme bandwidth The dispersionless solitonic solution is introduced to inform the reader on this new optical pulse shape which may soon ensure transoceanic communications The study of the minimisation of the waveguide dispersion leads us by means of several calculated frames to the weakly guiding condition This essential condition for a large bandwidth fiber leads us to the introduction of the practical LP modes In order to initiate the reader into integrated optics components the electromagnetic solution for two coupled planar waveguides is treated in an appendix Another appendix allows the reader to go through a quick initiation of the geometrical optics theory essential for the study of graded index fiber being the iconal equation and the ray equation starting from Maxwell equation under the short wavelength approximation

Photonic Networks, Components And Applications - Proceedings Of The Montebello Workshop J Terry,Jacek Chrostowski,1991-03-07 This Workshop gathered engineers and scientists to discuss their recent research and issues related to photonic networks and their topologies the enabling devices and applications these networks support Optical communication neural sensor and computer networks were considered Another part of the workshop was devoted to network components based on optical fibre semiconductor and organic materials such as lasers amplifiers and detectors integrated optic and optoelectronic circuits Applications in communications optical sensing and signal processing were addressed with particular emphasis on avionics submarine space as well as office residential medical and specialized captive services

Lasers Charles Blain,2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is

also provided by subject author and titles indexes

Handbook of Defence Electronics and Optronics Anil K.

Maini, 2018-03-26 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

Multiphoton Processes - Proceedings Of The Sixth International Conference See Leang Chin, D K Evans, 1994-08-31 This volume of important papers by one of the world's leading astrophysicists provides a sweeping survey of the incisive and exciting applications of nuclear and particle physics to a wide range of problems in astrophysics and cosmology The prime focus of the book is on Big Bang cosmology and the role of primordial nucleosynthesis in establishing the modern consensus on the Big Bang This leads into the connection of cosmology to particle physics and the constraints put on various elementary particles by astrophysical arguments Big Bang Nucleosynthesis has also led to the argument for nonbaryonic dark matter and is thus related to the major problem in physical cosmology today namely structure formation The nuclear particle interface with astrophysics also extends to the other topics of major interest such as the age of the universe cosmic rays supernovae and solar neutrinos each of which will be discussed in some detail Each section contains historical papers current papers and frequently a popular article on the subject which provides an overview of the topic This volume is testimony to the success of the integration of nuclear and particle physics with astrophysics and cosmology and to the ingenuity of the work in this area which has earned the author numerous prestigious awards The book which is accessible to beginning graduate students should be of particular interest to researchers and students in astronomy astrophysics cosmology and gravitation and also in high energy and nuclear physics

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