

LASERS, PHOTONICS, AND ELECTRO-OPTICS
Series Editor: H. Kogelnik

FUNDAMENTALS OF LASER OPTICS

KENICHI IGA

Fundamentals Of Laser Optics

DJ Losen



Fundamentals Of Laser Optics:

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 Laser Fundamentals William T. Silfvast, 2008-07-21 Laser Fundamentals provides a clear and comprehensive introduction to the physical and engineering principles of laser operation and design Simple explanations based throughout on key underlying concepts lead the reader logically from the basics of laser action to advanced topics in laser physics and engineering Much new material has been added to this second edition especially in the areas of solid state lasers semiconductor lasers and laser cavities This 2004 edition contains a new chapter on laser operation above threshold including extensive discussion of laser amplifiers The clear explanations worked examples and many homework problems will make this book invaluable to undergraduate and first year graduate students in science and engineering taking courses on lasers The summaries of key types of lasers the use of many unique theoretical descriptions and the extensive bibliography will also make this a valuable reference work for researchers **Lasers** K. Thyagarajan, Ajoy Ghatak, 2010-09-27 Ever since their invention in 1960 lasers have assumed tremendous importance in the fields of science engineering and technology because of their use both in basic research and in various technological applications Lasers Theory and Applications 2nd Edition will provide a coherent presentation of the basic physics behind the working of the laser along with some of their most important applications Numerical examples are scattered throughout the book for helping the student gain a better appreciation of the concepts and problems at the end of each chapter and provides the student a better understanding of the basics and help in applying the concepts to practical situations This book serves as a text in a course on lasers and their applications for students majoring in various disciplines such as Physics Chemistry and Electrical Engineering

Fundamentals of Laser Optics Kenichi Iga, 1994-04-14 The laser initially called the optical maser was proposed in 1958 by Charles Townes and Arthur Schawlow in 1960 Theodore Maiman was the first among several researchers to achieve laser oscillation by using a ruby crystal In the following quarter of a century a considerable amount of research and development has taken place and the laser is now utilized for many diverse applications ranging from the commonplace compact disk to intricate surgical applications in medicine Since I first entered the laboratory of Professor Yasuharu Suematsu in 1962 to complete my thesis I have been studying the new field of laser optics In spite of many expectations and a vast investment in research the first practical use of lasers was difficult to of Univ Erlangen once jokingly achieve The late Professor K H Zchauer remarked that laser was defined by an English physicist as Less Application of Stimulated Expensive Research In a similar vein Dr Herwig Kogelnik reminded me that in the early 1960s maser was often called Money Acquisition Scheme for Expensive Research Initially I worked with a ruby laser then with a helium neon gas laser and am presently engaged in

semiconductor laser research There are proba bly not a large number of researchers who have had the opportunity to build these three representative types of lasers My primary objective of study lies in optical communications however and therefore I have been approaching the laser mainly as a lightwave propagator

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

Laser Fundamentals H. Weber,G. Herziger,R. Poprawe,2005 The three volumes VIII 1A B C document the state of the art of Laser Physics and Applications Scientific trends and related technological aspects are considered by compiling results and conclusions from phenomenology observation and experience Reliable data physical fundamentals and detailed references are presented In the recent decades the laser beam source matured to a universal tool common to scientific research as well as to industrial use Today a technical goal is the generation of optical power towards shorter wavelengths shorter pulses and higher power for application in science and industry Tailoring the optical energy in wavelength space and time is a requirement for the investigation of laser induced processes i e excitation non linear amplification storage of optical energy etc According to the actual trends in laser research and development Vol VIII 1 is split into three parts Vol VIII 1A with its two subvolumes 1A1 and 1A2 covers laser fundamentals Vol VIII 1B deals with laser systems and Vol VIII 1C gives an overview on laser applications

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

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 Semiconductor Lasers Takahiro Numai, 2006-05-10 Fundamentals of Semiconductor Lasers explains the physics and fundamental characteristics of semiconductor lasers with regard to systems applications The detailed and comprehensive presentation is unique in that it encourages the reader to consider different semiconductor lasers from different angles Emphasis is placed on recognizing common concepts such operating principles and structure and solving problems based on individual situations The treatment is enhanced by an historical account of advances in semiconductor lasers over the years discussing both those ideas that have persisted over the years and those that have faded out The first four chapters cover the basics of semiconductors including band structures optical transitions optical waveguides and optical resonators The remaining chapters discuss operating principles and basic characteristics of semiconductor lasers and advanced topics including dynamic single mode lasers quantum well lasers and control of spontaneous emission The reader need only be familiar with undergraduate level electromagnetism and quantum mechanics After reading this book the student will be able to think critically about semiconductor lasers and be able to read and understand journal papers in the field This book will be essential to any advanced undergraduate or graduate student of semiconductor lasers and any professional physicist or engineer looking for a good overview of the subject Laser Fundamentals ,2005-10-24 The three volumes VIII 1A B C document the state of the art of Laser Physics and Applications Scientific trends and related technological aspects are considered by compiling results and conclusions from phenomenology observation and experience Reliable data physical fundamentals and detailed references are presented In the recent decades the laser beam source matured to a universal tool common to scientific research as well as to industrial use Today a technical goal is the generation of optical power towards shorter wavelengths shorter pulses and higher power for application in science and industry Tailoring the optical energy in wavelength space and time is a requirement for the investigation of laser induced processes i e excitation non linear amplification storage of optical energy etc According to the actual trends in laser research and development Vol VIII 1 is split into three parts Vol VIII 1A with its two subvolumes 1A1 and 1A2 covers laser fundamentals Vol VIII 1B deals with laser systems and Vol VIII 1C gives an overview on laser applications **Principles of Lasers and Optics** William S. C. Chang, 2005-01-20 Principles of Lasers and Optics first published in 2005 describes both the fundamental principles of the laser and the propagation and application of laser radiation in bulk and guided wave components All solid state gas and semiconductor lasers are analysed uniformly as macroscopic devices with susceptibility originated from quantum mechanical interactions to develop an overall understanding of the coherent nature of laser radiation Analyses of the unique properties of coherent laser light in bulk and guided wave components are presented together and derived from fundamental principles to allow students to appreciate the differences and similarities Topics covered include discussions on how laser radiation should be analysed the macroscopic differences and similarities of various

analyses special techniques types of lasers and setting up laser analyses This text will be useful for first year graduates in electrical engineering and physics and also as a reference book on analytical techniques

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

Fiber

Lasers Johan Meyer, Justice Sompó, Suné von Solms, 2022-02-03 Over the past two decades the use of fiber lasers in engineering applications has gradually become established as an engineering discipline on its own The development of fiber lasers is mainly the result of studies from various domains like photonics optical sensing fiber optics nonlinear optics and telecommunication Though many excellent books exist on each of these subjects and several have been written specifically to address lasers and fiber lasers it is still difficult to find one book where the diverse core of subjects that are central to the study of fiber laser systems are presented in simple and straight forward way **Fiber Lasers Fundamentals with MATLAB** Modelling is an introduction to the fundamentals of fiber lasers It provides clear explanations of physical concepts supporting the field of fiber lasers Fiber lasers characteristics are analyzed theoretically through simulations derived from numerical models The authors cover fundamental principles involved in the generation of laser light through both continuous wave CW and pulsing It also covers experimental configuration and characterization for both CW and Q switching The authors describe the simulation of fiber laser systems and propose numerical modelling of various fiber laser schemes MATLAB modelling and numerical computational methods are used throughout the book to simulate different fiber laser system configurations This book will be highly desirable and beneficial for both academics and industry professionals to have ample examples of fiber laser approaches that are well thought out and fully integrated with the subjects covered in the text This book is written to address these needs

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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

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the physical and engineering principles of laser operation and design **Fundamentals of Light Sources and Lasers**

Mark Csele, 2011-09-23 A comprehensive introduction to the burgeoning field of photonics The field of photonics is finding increasing applications across a broad range of industries While many other books provide an overview of the subject *Fundamentals of Light Sources and Lasers* closes a clear gap in the current literature by concentrating on the principles of laser operation as well as providing coverage of important concepts necessary to fully understand the principles involved The scope of the book includes everything a professional needs to get up to speed in the field as well as all the material necessary to serve as an excellent introductory laser course for students Ideal for self study as well as structured coursework the book offers thorough coverage of The nature of light and atomic emission Basic quantum mechanics and laser processes Cavity optics fast pulse production and nonlinear optical phenomena Laser technology including visible gas lasers UV gas lasers infrared gas lasers solid state lasers semiconductor lasers and tunable dye lasers Extensive real world case studies are included to help readers appreciate the practical applications of the material covered An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department **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 *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 Photonics* Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04

Fundamentals of Photonics A complete thoroughly updated full color third edition *Fundamentals of Photonics* Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated *Lasers in Ophthalmology* Franz Fankhauser, Sylwia Kwasniewska, 2003 Overview of the status of the broad range of laser applications

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