

Optical Waveguides

N.S. KAPANY and J.J. BURKE



QUANTUM ELECTRONICS—PRINCIPLES AND APPLICATIONS

Academic Press

Optical Waveguides Quantum Electronics Principles And Applications

Dietrich Marcuse



Optical Waveguides Quantum Electronics Principles And Applications:

Theory of Dielectric Optical Waveguides Dietrich Marcuse, 1980 **Optical Waveguides** N Kapany, 2012-12-02 Optical Waveguides describes waveguide phenomena in classical optical terms This book discusses mode propagation by using equivalent plane waves polarization rays and intensity distributions Comprised of seven chapters this book starts with an overview of the history of optical waveguides with emphasis on the earliest studies of dielectric guides This text then explores the theoretical treatment of guided waves in planar dielectric waveguides in terms of the characteristic modes of these structures Other chapters consider the interferometric description of the coupling of a uniform beam of light into a thin film through the mechanism of frustrated total reflection This book discusses as well the properties of the modes of fiber optical waveguides The final chapter deals with the general properties of the characteristic TE wave modes of a symmetric slab guide by direct solution of the homogeneous Maxwell equations Students of optics and physics as well as electronic optical and communications engineers will find this book useful *Theory of Dielectric Optical Waveguides 2e* Paul Liao, 2012-12-02 *Theory of Dielectric Optical Waveguides* Second Edition focuses on the practical usage of optical waveguides This book explores the rapid growth of integrated optics which is devoted to the development of microscopic optical circuits based on thin film technology Organized into nine chapters this edition starts with an overview of the properties of dielectric slab waveguides This book then examines the theory of directional couplers with and without diffraction gratings Other chapters describe the numerical methods for solving guided mode as well as wave propagation problems This text discusses as well the beam propagation method and the popular effective refractive index method The final chapter deals with the significance of nonlinear phenomena This book is a valuable resource for undergraduate and graduate students of physics and electrical engineering Practicing engineers and scientists in the fields of integrated optics optical communications and fiber sensors will find this book extremely useful **Theory of Dielectric Optical Waveguides** Dietrich Marcuse, 2013-09-11 *Theory of Dielectric Optical Waveguides* *Quantum Well Lasers* Peter S. Zory Jr., 2012-12-02 This book provides the information necessary for the reader to achieve a thorough understanding of all aspects of QW lasers from the basic mechanism of optical gain through the current technological state of the art to the future technologies of quantum wires and quantum dots In view of the growing importance of QW lasers this book should be read by all those with an active interest in laser science and technology from the advanced student to the experienced laser scientist The first comprehensive book length treatment of quantum well lasers Provides a detailed treatment of quantum well laser basics Covers strained quantum well lasers Explores the different state of the art quantum well laser types Provides key information on future laser technologies *Beam Propagation Method for Design of Optical Waveguide Devices* Ginés Lifante Pedrola, 2015-10-13 The basic of the BPM technique in the frequency domain relies on treating the slowly varying envelope of the monochromatic electromagnetic field under paraxial propagation thus allowing efficient numerical

computation in terms of speed and allocated memory In addition the BPM based on finite differences is an easy way to implement robust and efficient computer codes This book presents several approaches for treating the light wide angle scalar approach semivectorial treatment and full vectorial treatment of the electromagnetic fields Also special topics in BPM cover the simulation of light propagation in anisotropic media non linear materials electro optic materials and media with gain losses and describe how BPM can deal with strong index discontinuities or waveguide gratings by introducing the bidirectional BPM BPM in the time domain is also described and the book includes the powerful technique of finite difference time domain method which fills the gap when the standard BPM is no longer applicable Once the description of these numerical techniques have been detailed the last chapter includes examples of passive active and functional integrated photonic devices such as waveguide reflectors demultiplexers polarization converters electro optic modulators lasers or frequency converters The book will help readers to understand several BPM approaches to build their own codes or to properly use the existing commercial software based on these numerical techniques

Emerging Waveguide Technology

Kok Yeow You,2018-08-01 Recently the rapid development of radiofrequency RF microwave and photonic optical waveguide technologies has had a significant impact on the current electronic industrial medical and information and communication technology ICT fields This book is a self contained collection of valuable scholarly papers related to waveguide design modeling and applications This book contains 20 chapters that cover three main subtopics of waveguide technologies namely RF and microwave waveguide photonic and optical waveguide and waveguide analytical solutions Hence this book is particularly useful to the academics scientists practicing researchers and postgraduate students whose work relates to the latest waveguide technologies

Molecular Nonlinear Optics Joseph Zyss,2013-10-22 This volume brings together contributions from world renowned researchers on molecular nonlinear optics It takes as its impetus work done over the last five years in which newly developed optoelectronic devices have deepened our understanding of the fundamental physics and chemistry underlying these materials Organic materials involving thin films polymers and resulting devices will be emphasized

Twelfth Annual Conference in European Fibre Optic Communications and Networks Conference on European Fibre Optic Communications and Networks (12, 1994, Heidelberg),1994

Contemporary Nonlinear Optics

Robert Boyd,2012-12-02 Contemporary Nonlinear Optics discusses the different activities in the field of nonlinear optics The book is comprised of 10 chapters Chapter 1 presents a description of the field of nonlinear guided wave optics Chapter 2 surveys a new branch of nonlinear optics under the heading optical solitons Chapter 3 reviews recent progress in the field of optical phase conjugation Chapter 4 discusses ultrafast nonlinear optics a field that is growing rapidly with the ability of generating and controlling femtosecond optical pulses Chapter 5 examines a branch of nonlinear optics that may be termed nonlinear quantum optics Chapter 6 reviews the new field of photorefractive adaptive neural networks Chapter 7 presents a discussion of recent successes in the development of nonlinear optical media based on organic materials Chapter 8 reviews the field of

nonlinear optics in quantum confined structures Chapter 9 reviews the field of nonlinear laser spectroscopy with emphasis on advances made during the 1980s Finally Chapter 10 reviews the field of nonlinear optical dynamics by considering nonlinear optical systems that exhibit temporal spatial or spatio temporal instabilities This book is a valuable source for physicists and other scientists interested in optical systems and neural networks [Principles of Optics for Engineers](#) William S. C.

Chang,2015-05-28 Uniting classical and modern photonics approaches by presenting optical analyses as solutions of Maxwell's equations this unique book enables students and practising engineers to fully understand the similarities and differences between the different methods The book begins with a thorough discussion of plane wave analysis which provides a clear understanding of optics without considering boundary condition or device configuration It then goes on to cover diffraction analysis of many applications including a rigorous analysis of TEM waves using Maxwell's equations with boundaries Laser cavity modes and Gaussian beams are presented modal analysis is covered and approximation methods are discussed including the perturbation technique coupled mode analysis and super mode analysis With theory linked to practical examples throughout it provides a clear understanding of the interplay between plane wave diffraction and modal analysis and how the different techniques can be applied to various areas including imaging signal processing and optoelectronic devices

Fundamentals of Optical Waveguides Katsunari Okamoto,2000-02-04 Fundamentals of Optical Waveguides gives a complete theoretical basis of optical fibers and planar lightwave circuits while being the first book to deal with the principles and applications of Arrayed Waveguide Grating multiplexers and Planar Lightwave Circuits This comprehensive book enables researchers and graduate students working with optoelectronics to acquire and utilize the analysis techniques necessary for designing and simulating novel optical fibers and devices

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 [Principles of Photonic Integrated Circuits](#) Richard Osgood jr.,Xiang

Meng,2021-05-21 This graduate level textbook presents the principles design methods simulation and materials of photonic circuits It provides state of the art examples of silicon indium phosphide and other materials frequently used in these circuits and includes a thorough discussion of all major types of devices In addition the book discusses the integrated photonic

circuits chips that are currently increasingly employed on the international technology market in connection with short range and long range data communication Featuring references from the latest research in the field as well as chapter end summaries and problem sets Principles of Photonic Integrated Circuits is ideal for any graduate level course on integrated photonics or optical technology and communication **IP over WDM** Sudhir Dixit,2004-07-12 The key technology to delivering maximum bandwidth over networks is Dense Wave length Division Multiplexing DWDM Describes in detail how DWDM works and how to implement a range of transmission protocols Covers device considerations the pros and cons of various network layer protocols and quality of service QoS issues The authors are leading experts in this field and provide real world implementation examples First book to describe the interplay between the physical and IP Internet Protocol layers in optical networks **Digital and Analog Fiber Optic Communications for CATV and FTTx Applications** Avigdor Brillant,2008 This book is intended to provide a step by step guide to all design aspects and tradeoffs from theory to application for fiber optics transceiver electronics Presenting a compendium of information in a structured way this book enables the engineer to develop a methodical design approach a deep understanding of specifications parameters and the reasons behind them as well as their effects and consequences on system performance which are essential for proper component design Further a fundamental understanding of RF digital circuit design and linear and nonlinear phenomena is important in order to achieve the desired performance levels Becoming familiar with solid state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations

Introduction to Nonlinear Laser Spectroscopy Marc Levenson,2012-12-02 Introduction to Nonlinear Laser Spectroscopy focuses on the principles of nonlinear laser spectroscopy This book discusses the experimental techniques of nonlinear optics and spectroscopy Comprised of seven chapters this book starts with an overview of the stimulated Raman effect and coherent anti Stokes Raman spectroscopy which can be used in a varied way to generate radiation in the ultraviolet and vacuum ultraviolet areas This text then explains the simplest quantum mechanical system consisting of an isolated entity with energy eigenstates **Fifth International Conference on Mathematical and Numerical Aspects of Wave Propagation** Alfredo Berm?dez,2000-01-01 This conference was held in Santiago de Compostela Spain July 10 14 2000 This volume contains papers presented at the conference covering a broad range of topics in theoretical and applied wave propagation in the general areas of acoustics electromagnetism and elasticity Both direct and inverse problems are well represented This volume along with the three previous ones presents a state of the art primer for research in wave propagation The conference is conducted by the Institut National de Recherche en Informatique et en Automatique with the cooperation of SIAM **Fundamentals of Photonic Crystal Guiding** Maksim Skorobogatiy,Jianke Yang,2009 A systematic rigorous pedagogical introduction to the field of photonic crystals ideal for researchers and graduate students **Optical Fiber Sensing Technologies** Tiegen Liu,Junfeng Jiang,Kun Liu,Shuang Wang,2021-10-26 Optical Fiber Sensing

Technologies b Explore foundational and advanced topics in optical fiber sensing technologies In Optical Fiber Sensing Technologies Principles Techniques and Applications a team of distinguished researchers delivers a comprehensive overview of all critical aspects of optical fiber sensing devices systems and technologies The book moves from the basic principles of the technology to innovation methods and a broad range of applications including Bragg grating sensing technology intra cavity laser gas sensing technology optical coherence tomography distributed vibration sensing and acoustic sensing The accomplished authors bridge the gap between innovative new research in the field and practical engineering solutions offering readers an unmatched source of practical application ready knowledge Ideal for anyone seeking to further the boundaries of the science of optical fiber sensing or the technological applications for which these techniques are used Optical Fiber Sensing Technologies Principles Techniques and Applications also includes Thorough introductions to optical fiber and optical devices as well as optical fiber Bragg grating sensing technology Practical discussions of Extrinsic Fabry Perot Interferometer based optical fiber sensing technology acoustic sensing technology and high temperature sensing technology Comprehensive explorations of assemble free micro interferometer based optical fiber sensing technology In depth examinations of optical fiber intra cavity laser gas sensing technology Perfect for applied and semiconductor physicists Optical Fiber Sensing Technologies Principles Techniques and Applications is also an invaluable resource for professionals working in the semiconductor optical and sensor industries as well as materials scientists and engineers for measurement and control

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