



Fig. 1. Domain model of optical waveguide design.

# Beam Propagation Method For Design Of Optical Waveguide Devices

**J Terry,Jacek Chrostowski**

## **Beam Propagation Method For Design Of Optical Waveguide Devices:**

Beam Propagation Method for Design of Optical Waveguide Devices Ginés Lifante Pedrola,2015-10-20 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includes the powerful technique of finite difference time domain method which fills the gap when the standard BPM is no longer applicable Once the description of these numerical techniques have been detailed the last chapter includes examples of passive active and functional integrated photonic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

*Introduction to Optical Waveguide Analysis* Kenji Kawano,Tsutomu Kitoh,2004-03-22 A complete survey of modern design and analysis techniques for optical waveguides This volume thoroughly details modern and widely accepted methods for designing the optical waveguides used in telecommunications systems It offers a straightforward presentation of the sophisticated techniques used in waveguide analysis and enables a quick grasp of modern numerical methods with easy mathematics The book is intended to guide the reader to a comprehensive understanding of optical waveguide analysis through self study This comprehensive presentation includes An extensive and exhaustive list of mathematical manipulations Detailed explanations of common design methods finite element method FEM finite difference method FDM beam propagation method BPM and finite difference time domain method FD TDM Explanations for numerical solutions of optical waveguide problems with sophisticated techniques used in modern computer aided design CAD software Solutions to Maxwell's equations and the Schrodinger equation The authors provide excellent self study material for practitioners researchers and students while also presenting detailed mathematical manipulations that can be easily understood by readers who are unfamiliar with them Introduction to Optical Waveguide Analysis presents modern design methods in a comprehensive and easy to understand format

## **Handbook of Laser Technology and Applications**

Chunlei Guo,Subhash Chandra Singh,2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser technologies including the complete range of their technical applications The first volume outlines the fundamental components of lasers their properties and working principles Key Features Offers a complete update of the original

bestselling work including many brand new chapters Deepens the introduction to fundamentals from laser design and fabrication to host matrices for solid state lasers energy level diagrams hosting materials dopant energy levels and lasers based on nonlinear effects Covers new laser types including quantum cascade lasers silicon based lasers titanium sapphire lasers terahertz lasers bismuth doped fiber lasers and diode pumped alkali lasers Discusses the latest applications e g lasers in microscopy high speed imaging attosecond metrology 3D printing optical atomic clocks time resolved spectroscopy polarization and profile measurements pulse measurements and laser induced fluorescence detection Adds new sections on laser materials processing laser spectroscopy lasers in imaging lasers in environmental sciences and lasers in communications This handbook is the ideal companion for scientists engineers and students working with lasers including those in optics electrical engineering physics chemistry biomedicine and other relevant areas Design, Manufacturing, and Testing of Planar Optical Waveguide Devices Robert A. Norwood,2001 Optical Waveguides María L. Calvo,Vasudevan Lakshminarayanan,2018-10-03 Although the theory and principles of optical waveguides have been established for more than a century the technologies have only been realized in recent decades Optical Waveguides From Theory to Applied Technologies combines the most relevant aspects of waveguide theory with the study of current detailed waveguiding technologies in particular photonic devices telecommunication applications and biomedical optics With self contained chapters written by well known specialists the book features both fundamentals and applications The first three chapters examine the theoretical foundations and bases of planar optical waveguides as well as critical optical properties such as birefringence and nonlinear optical phenomena The next several chapters focus on contemporary waveguiding technologies that include photonic devices and telecommunications The book concludes with discussions on additional technological applications including biomedical optical waveguides and the potential of neutron waveguides As optical waveguides play an increasing part in modern technology photonics will become to the 21st century what electronics were to the 20th century Offering both novel insights for experienced professionals and introductory material for novices this book facilitates a better understanding of the new information era the photonics century Design and Fabrication of Planar Optical Waveguide Devices and Materials Robert A. Norwood,2002 Propagating Beam Analysis of Optical Waveguides Junji Yamauchi,2003 This book is for graduate students and scientists interested in the numerical analysis of dielectric waveguides Engineers in industries should be interested since optical waveguide analysis is becoming popular and indispensable in designing various optical devices at a small cost of time and labour This text is a comprehensive introduction to a beam propagation analysis of optical waveguides and is the summary of the research investigations made at Hosei University Japan The subject described in the book includes the finite difference beam propagation method BPM in Cartesian cylindrical and oblique coordinates For the Cartesian coordinates based BPM semivectorial and fullvectorial BPMs are presented with some applications Improved finite difference formulas are introduced to accurately analyze graded index and step index waveguides The alternating

direction implicit method is employed to efficiently treat three dimensional structures To deal with a reflection problem a time domain BPM scalar FD TD method and vectorial FD TD method are provided A hybrid technique that combines the BPM and the FD TD method is also described *Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set* Craig Hoffman,Ronald Driggers,2015-09-22 The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also Boasts a wealth of new material expanding the encyclopedia's length by 25 percent Contains extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition's release corresponds nicely with the United Nations General Assembly's declaration of 2015 as the International Year of Light working in tandem to raise awareness about light's important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**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

*Encyclopedic Handbook of Integrated Optics* Kenichi Iga,Yasuo Kokubun,2018-10-03 As optical technologies move closer to the core of modern computer architecture there arise many challenges in building optical capabilities from the network to the motherboard Rapid advances in integrated optics technologies are making this a reality However no comprehensive up to date reference is available to the technologies and principles underlying the field The Encyclopedic Handbook of Integrated Optics fills this void collecting the work of 53 leading experts into a compilation of the most important concepts phenomena technologies and terms covering all related fields This unique book consists of two types of entries the first is a detailed full length description the other a concise overview of the topic Additionally the coverage can be divided into four broad areas A survey of the basics of integrated optics exploring theory practical concerns and the fundamentals behind optical devices Focused discussion on devices and components such as arrayed waveguide grating

various types of lasers optical amplifiers and optoelectronic devices In depth examination of subsystems including MEMS optical pickup and planar lightwave circuits Finally systems considerations such as multiplexing demultiplexing 3R circuits transmission and reception Offering a broad and complete treatment of the field the Encyclopedic Handbook of Integrated Optics is the complete guide to the fundamentals principles and applications of integrated optics technology **Design and Fabrication of Silicon on Insulator Optical Waveguide Devices** Eric J. Harvey,2006 In this thesis we present design fabrication and testing of several photonic devices on a silicon on insulator SOI substrate The historical developments in micro optic technology including problems it has faced and its current state of maturity is outlined The most recent integration trends of electronics and optics particularly the transition of micro optics to silicon on insulator platform will be reviewed With this foundation in silicon photonics several rib waveguide structures including directional couplers WDM couplers y branches and MMI splitters are designed simulated and fabricated on an SOI substrate Beam propagation method BPM was used in the modeling of these devices Computation time is reduced by using a least squared regression to predict coupler behavior and losses in devices with varying dimensions and shape A fabrication procedure is developed characterized and implemented The final devices are tested and qualitative results provided Abstract

**Design, Simulation, and Fabrication of Optoelectronic Devices and Circuits** Mario N. Armenise,1994 **Thin Films for Optical Waveguide Devices and Materials for Optical Limiting: Volume 597** Keiichi Nashimoto,2000-10-02 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

**The Handbook of Photonics** Mool C. Gupta,John Ballato,2018-10-03 Reflecting changes in the field in the ten years since the publication of the first edition The Handbook of Photonics Second Edition explores recent advances that have affected this technology In this new updated second edition editor Mool Gupta is joined by John Ballato strengthening the handbook with their combined knowledge and the continued contributions of world class researchers New in the Second Edition Information on optical fiber technology and the economic impact of photonics Coverage of emerging technologies in nanotechnology Sections on optical amplifiers and polymeric optical materials The book covers photonics materials devices and systems respectively An introductory chapter new to this edition provides an overview of photonics technology innovation and economic development Resting firmly on the foundation set by the first edition this new edition continues to serve as a source for introductory material and a collection of published data for research and training in this field making it the reference of first resort

**Materials and Devices for Photonic Circuits** ,2001 **JJAP** ,2006 **Japanese Journal of Applied Physics** ,2007 **Integrated Optics Devices** ,2001

**Summaries of Papers Presented at the Conference on Lasers and Electro-optics** ,1989 **Glasses for Optoelectronics II** Giancarlo C. Righini,1991

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