Modeling Methods for PHOTONICS

Minjie Lin

Finite Element Modeling Methods for Photonics B. M. Azizur Rahman ,Arti Agrawal ,2013-08-01 The term photonics can be used loosely to refer to a vast array of components devices and technologies that in some way involve manipulation of light One of the most powerful numerical approaches available to engineers developing photonic components and devices is the Finite Element Method FEM which can be used to model and simulate such components devices and analyze how they will behave in response to various outside influences This resource provides a comprehensive description of the formulation and applications of FEM in photonics applications ranging from telecommunications astronomy and sensing to chemistry imaging and biomedical R D This book emphasizes practical problem solving applications and includes real world examples to assist readers in understanding how mathematical concepts translate to computer code for finite element based methods applicable to a range of photonic structures In addition this is the perfect support to anyone using the COMSOL Multiphysics RF Module Numerical Methods in Photonics Andrei V. Lavrinenko, Jesper Lægsgaard, Niels Gregersen, Frank Schmidt, Thomas Søndergaard, 2018-09-03 Simulation and modeling using numerical methods is one of the key instruments in any scientific work In the field of photonics a wide range of numerical methods are used for studying both fundamental optics and applications such as design development and optimization of photonic components Modeling is key for developing improved photonic devices and reducing development time and cost Choosing the appropriate computational method for a photonics modeling problem requires a clear understanding of the pros and cons of the available numerical methods Numerical Methods in Photonics presents six of the most frequently used methods FDTD FDFD 1 1D nonlinear propagation modal method Green's function and FEM After an introductory chapter outlining the basics of Maxwell's equations the book includes self contained chapters that focus on each of the methods Each method is accompanied by a review of the mathematical principles in which it is based along with sample scripts illustrative examples of characteristic problem solving and exercises MATLAB is used throughout the text This book provides a solid basis to practice writing your own codes The theoretical formulation is complemented by sets of exercises which allow you to grasp the essence of the modeling tools

The Finite Element Method in Electromagnetics Jian-Ming Jin, 2014-03-31 A new edition of the leading textbook on the finite element method incorporating major advancements and further applications in the field of electromagnetics. The finite element method FEM is a powerful simulation technique used to solve boundary value problems in a variety of engineering circumstances. It has been widely used for analysis of electromagnetic fields in antennas radar scattering RF and microwave engineering high speed high frequency circuits wireless communication electromagnetic compatibility photonics remote sensing biomedical engineering and space exploration. The Finite Element Method in Electromagnetics Third Edition explains the method is processes and techniques in careful meticulous prose and covers not only essential finite element method theory but also its latest developments and applications giving engineers a methodical way to quickly master this

very powerful numerical technique for solving practical often complicated electromagnetic problems Featuring over thirty percent new material the third edition of this essential and comprehensive text now includes A wider range of applications including antennas phased arrays electric machines high frequency circuits and crystal photonics. The finite element analysis of wave propagation scattering and radiation in periodic structures The time domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena Novel domain decomposition techniques for parallel computation and efficient simulation of large scale problems such as phased array antennas and photonic crystals Along with a great many examples The Finite Element Method in Electromagnetics is an ideal book for engineering students as well as for professionals in the field Integrated Photonics Research ,2003 Recent Trends in Computational Photonics Arti Agrawal, Trevor Benson, Richard M. De La Rue, Gregory A. Wurtz, 2017-11-01 This book brings together the recent cutting edge work on computational methods in photonics and their applications. The latest advances in techniques such as the Discontinuous Galerkin Time Domain method Finite Element Time Domain method Finite Difference Time Domain method as well as their applications are presented Key aspects such as modelling of non linear effects Second Harmonic Generation lasing in fibers including gain nonlinearity in metamaterials the acousto optic effect and the hydrodynamic model to explain electron response in nanoplasmonic structures are included The application areas covered include plasmonics metamaterials photonic crystals dielectric waveguides fiber lasers The chapters give a representative survey of the corresponding area

Photonics Packaging and Integration, 2003 Materials and Devices for Photonic Circuits, 2001 Photonics

North 2004 John C. Armitage, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature. Laser Physics and Photonics, Spectroscopy and Molecular Modeling, 2004. Photonics

2000 S. K. Lahiri, Central Glass and Ceramic Research Institute (Kolkata, India), Society of Photo-optical Instrumentation Engineers, 2001. Photonic Devices and Algorithms for Computing, 1999. Directory of Published Proceedings, 2002.

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Journal of the Optical Society of America ,2003 The Engineering Index Annual ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world's most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly

Proceedings of LFNM ..., 2003

RIAO/OPTILAS 2004 ,2004 Integrated Optics and Photonic Integrated Circuits Giancarlo C. Righini, Seppo

Honkanen,2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Transport and Optical Properties of Nanomaterials Mahi R. Singh,Robert H. Lipson,2009-07-08 The conference was a forum to discuss recent developments in the growth and characterization of nano structured materials the synthesis of novel materials and their incorporation into devices with optical and electronic properties determined by nanoscale features and the theoretical modeling of electronic optical magnetic and thermal properties of such systems

Fiber Integrated Optics Giancarlo C. Righini,1996

Mathematical Reviews ,1987

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