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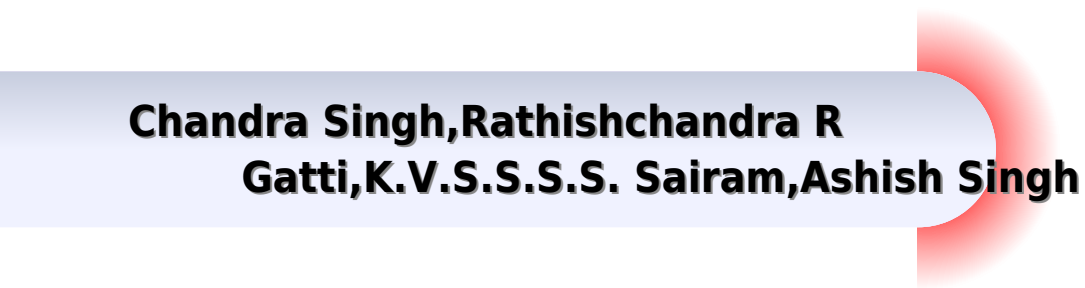
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Physics and Practical Modeling

Springer

Photonic Crystals Physics And Practical Modeling Springer Series In Optical Sciences

**Chandra Singh, Rathishchandra R
Gatti, K.V.S.S.S.S. Sairam, Ashish Singh**



Photonic Crystals Physics And Practical Modeling Springer Series In Optical Sciences:

Photonic Crystals Igor A. Sukhoivanov, Igor V. Guryev, 2009-09-21 The great interest in photonic crystals and their applications in the last 15 years is being expressed in the publishing of a large number of monographs collections textbooks and tutorials where existing knowledge concerning operation principles of photonic crystal devices and microstructured fibers their mathematical description well known and novel applications of such technologies in photonics and optical communications are presented They challenges authors of new books to cover the gaps still existing in the literature and highlight and popularize of already known material in a new and original manner

Authors of this book believe that the next step towards wide application of photonic crystals is the solution of many practical problems of design and computation of the specific photonic crystal based devices aimed at the specific technical application In order to make this step it is necessary to increase the number of practitioners who can solve such problems independently The aim of this book is to extend the group of researchers developers and students who could practically use the knowledge on the physics of photonic crystals together with the knowledge and skills of independent calculation of basic characteristics of photonic crystals and modeling of various elements of integrated circuits and optical communication systems created on the basis of photonic crystals The book is intended for qualified readers specialists in the field of optics and photonics students of higher courses master degree students and PhD students As an introduction to the subject the book contains the basics of wave optics and radiation propagation in simple guiding media such as planar waveguides and step index fibers

Fourier Modal Method and Its Applications in Computational Nanophotonics Hwi Kim, Junghyun Park, Byoung-ho Lee, 2017-12-19 Most available books on computational electrodynamics are focused on FDTD FEM or other specific technique developed in microwave engineering In contrast Fourier Modal Method and Its Applications in Computational Nanophotonics is a complete guide to the principles and detailed mathematics of the up to date Fourier modal method of optical analysis It takes readers through the implementation of MATLAB codes for practical modeling of well known and promising nanophotonic structures The authors also address the limitations of the Fourier modal method Features Provides a comprehensive guide to the principles methods and mathematics of the Fourier modal method Explores the emerging field of computational nanophotonics Presents clear step by step practical explanations on how to use the Fourier modal method for photonics and nanophotonics applications Includes the necessary MATLAB codes enabling readers to construct their own code Using this book graduate students and researchers can learn about nanophotonics simulations through a comprehensive treatment of the mathematics underlying the Fourier modal method and examples of practical problems solved with MATLAB codes

Advances in Optical Science and Engineering Indrani Bhattacharya, Satyajit Chakrabarti, Haricharan Singh Reehal, Vasudevan Lakshminarayanan, 2017-09-21 The Proceedings of 3rd International Conference on Opto Electronics and Applied Optics OPTRONIX 2016 is an effort to promote and present

the research works by scientists and researchers including students in India and abroad in the area of Green Photonics and other related areas as well as to raise awareness about the recent trends of research and development in the area of the related fields The book has been organized in such a way that it will be easier for the readers to go through and find out the topic of their interests The first part includes the Keynote addresses by Rajesh Gupta Department of Energy Science and Engineering Indian Institute of Technology Bombay P T Ajith Kumar President and Leading Scientist Light Logics Holography and Optics Crescent Hill Trivandrum Kerala and K K Ghosh Institute of Engineering Motoharu Fujigaki University of Fukui Japan Takeo Sasaki Tokyo University of Science Japan Kehar Singh Former Professor Indian Institute of Technology Delhi India Rajpal S Sirohi Tezpur University India Ajoy Kumar Chakraborty Institute of Engineering Lakshminarayan Hazra Emeritus Professor Calcutta University India S K Bhadra Emeritus Scientist Indian Institute of Chemical Biology India Partha Roy Chaudhuri Department of Physics Indian Institute of Technology Kharagpur India Navin Nishchal Indian Institute of Technology Patna India Tarun Kumar Gangopadhyay CSIR Central Glass and Ceramic Research Institute India Samudra Roy Department of Physics Indian Institute of Technology Kharagpur India Kamakhya Ghatak University of Engineering Fibre and Integrated Optics Lasers Interferometry Optical Communication and Networks Optical and Digital Data and Image Processing Opto Electronic Devices Terahertz Technology Nano Photonics Bio Photonics Bio Medical Optics Lasers Quantum Optics and Information Technology E M Radiation Theory and Antenna Cryptography Quantum and Non Linear Optics Opto Electronic Devices Non Linear Waveguides Micro Electronics and VLSI Interdisciplinary

Modeling and Optimization of Optical Communication Networks Chandra Singh, Rathishchandra R Gatti, K.V.S.S.S. Sairam, Ashish Singh, 2023-11-21

MODELING and OPTIMIZATION of OPTICAL COMMUNICATION NETWORKS Optical networks are an integral part of many of the technologies that we use every day It is a constantly changing and evolving area with new materials processes and applications coming online almost daily This book provides a basis for discussing open principles methods and research problems in the modeling of optical communication networks It also provides a systematic overview of the state of the art research efforts and potential research directions dealing with optical communication networks It also simultaneously focuses on extending the limits of currently used systems encompassing optical and wireless domains and explores novel research on wireless and optical techniques and systems describing practical implementation activities results and issues A handbook on applications for both academia and industry this exciting new volume includes detailed discussions on real world case studies on trends and emerging technologies associated with modeling of optical communication networks This book also describes several numerical models and algorithms for simulation and optimization of optical communication networks Modeling and optimization presents several opportunities for automating operations and introducing intelligent decision making in network planning and in dynamic control and management of network resources including issues like connection establishment self configuration and self optimization through prediction and estimation by utilizing present

network state and historical data It focuses on extending the limits of currently used systems encompassing optical and wireless domains and explores the latest developments in applications like photonics high speed communication systems and networks visible light communication nano photonics wireless and MIMO systems *Photonics* Léonard Dobrzyński,Yabin Jin,Abdellatif Akjouj,El Houssaine El Boudouti,Gaetan Leveque,Housni Al-Wahsh,Yan Pennec,Cecile Ghouila-Houri,Abdelkrim Talbi,Bahram Djafari-Rouhani,2020-11-28 Photonics a volume in the Interface Transmission Tutorial Book series describes the science of photonic transmission properties of the interfaces of composite materials systems and devices The book s authors review the general analysis methods of interface transmission give many examples and apply these methods to photonic applications Applications discussed include photonic crystals materials devices and circuits Offers a unique approach on photonics from the interfacial transmission point of view Reviews the interface transmission properties of composite materials for photonics applications Authored by world leading experts on interface transmission **Optical And Microwave Technologies** Gnanam Gnanagurunathan,R.G. Sangeetha,K. Usha Kiran,2017-11-25 This book gathers a collection of papers by international experts presented at the International Conference on NextGen Electronic Technologies ICNETS2 2016 ICNETS2 encompasses six symposia covering all aspects of the electronics and communications domains including relevant nano micro materials and devices Highlighting the latest research on Optical And Microwave Technologies the book will benefit all researchers professionals and students working in the core areas of electronics and their applications especially in signal processing embedded systems and networking **Contemporary Optoelectronics** Oleksiy Shulika,Igor Sukhoivanov,2015-09-11 This book presents a collection of extended contributions on the physics and application of optoelectronic materials and metamaterials The book is divided into three parts respectively covering materials metamaterials and optoelectronic devices Individual chapters cover topics including phonon polariton interaction semiconductor and nonlinear organic materials metallic dielectric and gyrotropic metamaterials singular optics parity time symmetry nonlinear plasmonics microstructured optical fibers passive nonlinear shaping of ultrashort pulses and pulse preserving supercontinuum generation The book contains both experimental and theoretical studies and each contribution is a self contained exposition of a particular topic featuring an extensive reference list The book will be a useful resource for graduate and postgraduate students researchers and engineers involved in optoelectronics photonics quantum electronics optics and adjacent areas of science and technology Advances in Photonic Crystals Vittorio Passaro,2013-02-13 This book collects chapters on different theoretical and experimental aspects of photonics crystals for Nanophotonics applications It is divided in two parts a theoretical section and an experimental and applicative section The first part includes chapters developing several numerical methods for analysis and design of photonic crystal devices such as 2D ring resonators for filters single and coupled nanobeam cavities birefringence in photonic crystal cavities threshold analysis in photonic crystal lasers gap solitons in photonic crystals novel photonic atolls dynamic characteristics of photonic crystal filters The second

part focuses on some aspects of photonic crystals fabrication and relevant applications such as nitrogen defect technology in diamond silicon nitride free standing membranes photonic crystals structures in silicon photonic crystals for optical sensing

MATLAB for Engineers Karel Perutka, 2011-10-13 The book presents several approaches in the key areas of practice for which the MATLAB software package was used Topics covered include applications for Motors Power systems Robots Vehicles The rapid development of technology impacts all areas Authors of the book chapters who are experts in their field present interesting solutions of their work The book will familiarize the readers with the solutions and enable the readers to enlarge them by their own research It will be of great interest to control and electrical engineers and students in the fields of research the book covers Advances in Photonic Crystals and Devices Narendra Kumar, Bhuvneshwer Suthar, 2019-09-06

In recent decades there has been a phenomenal growth in the field of photonic crystal research and has emerged as an interdisciplinary area Photonic crystals are usually nanostructured electromagnetic media consisting of periodic variation of dielectric constant which prohibit certain electromagnetic wave frequency ranges called photonic bandgaps to propagate through them Photonic crystals elicited numerous interesting features by unprecedented control of light and their exploitation is a promising tool in nanophotonics and designing optical components The book Advances in Photonic Crystals and Devices is designed with 15 chapters with introductory as well as research and application based contents It covers the following highlighted features Basics of photonic crystals and photonic crystal fibers Different theoretical as well as experimental approaches Current research advances from around the globe Nonlinear optics and super continuum generation in photonic crystal fibers Magnetized cold plasma photonic crystals Liquid crystal defect embedded with graphene layers Biophysics and biomedical applications as optical sensors Two dimensional photonic crystal demultiplexer Optical logic gates using photonic crystals A large number of references The goal of this book is to draw the background in understanding fabrication and characterization of photonic crystals using a variety of materials and their applications in design of several optical devices Though the book is useful as a reference for the researchers working in the area of photonics optical computing and fabrication of nanophotonic devices it is intended for the beginners like students pursuing their masters degree in photonics

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