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Computer Engineering National University of Singapore Prof Guangya Zhou is Associate Professor in the Department of Mechanical Engineering at National University of Singapore Nonlinearities in Periodic Structures and Metamaterials Cornelia Denz, Sergej Flach, Yuri S. Kivshar, 2010-03-11 Optical information processing of the future is associated with a new generation of compact nanoscale optical devices operating entirely with light Moreover adaptive features such as self guiding reconfiguration and switching become more and more important Nonlinear devices offer an enormous potential for these applications Consequently innovative concepts for all optical communication and information technologies based on nonlinear effects in photonic crystal physics and nanoscale devices as metamaterials are of high interest This book focuses on nonlinear optical phenomena in periodic media such as photonic crystals optically induced adaptive lattices atomic lattices or metamaterials The main purpose is to describe and overview new physical phenomena that result from the interplay between nonlinearities and structural periodicities and is a guide to actual and future developments for the expert reader in optical Advanced Photonic Sciences Mohamed information processing as well as in the physics of cold atoms in optical lattices Fadhali, 2012-03-21 The new emerging field of photonics has significantly attracted the interest of many societies professionals and researchers around the world The great importance of this field is due to its applicability and possible utilization in almost all scientific and industrial areas This book presents some advanced research topics in photonics It consists of 16 chapters organized into three sections Integrated Photonics Photonic Materials and Photonic Applications It can be said that this book is a good contribution for paving the way for further innovations in photonic technology The chapters have been written and reviewed by well experienced researchers in their fields In their contributions they demonstrated the most profound knowledge and expertise for interested individuals in this expanding field The book will be a good reference for experienced professionals academics and researchers as well as young researchers only starting their Plasmonics Tatjana Gric, 2018-11-21 Plasmonics gives researchers in universities and industries and carrier in this field designers an overview of phenomena enabled by artificially designed metamaterials and their application for plasmonic devices The purpose of this book is to provide a detailed introduction to the basic modeling approaches and an overview of enabled innovative phenomena The main research agenda of this book is aimed at the study of modeling techniques and novel functionalities such as plasmonic enhancement of solar cell efficiency plasmonics in sensing etc The topics addressed in this book cover the major strands theory modeling and design applications in practical devices fabrication characterization and measurement It is worthwhile mentioning that the strategic objectives of developing new artificial functional materials require close cooperation of the research in each subarea Frontiers in Guided Wave Optics and Optoelectronics Bishnu Pal, 2010-02-01 As the editor I feel extremely happy to present to the readers such a rich collection of chapters authored co authored by a large number of experts from around the world covering the broad field of guided wave optics and optoelectronics Most of the chapters are state of the art on respective topics or areas that are emerging Several authors

narrated technological challenges in a lucid manner which was possible because of individual expertise of the authors in their own subject specialties I have no doubt that this book will be useful to graduate students teachers researchers and practicing engineers and technologists and that they would love to have it on their book shelves for ready reference at any time

Reviews in Plasmonics 2016 Chris D. Geddes, 2017-02-28 Reviews in Plasmonics 2016 the third volume of the new book series from Springer serves as a comprehensive collection of current trends and emerging hot topics in the field of Plasmonics and closely related disciplines It summarizes the year's progress in surface plasmon phenomena and its applications with authoritative analytical reviews in sufficient detail to be attractive to professional researchers yet also appealing to the wider audience of scientists in related disciplines of Plasmonics Reviews in Plasmonics offers an essential source of reference material for any lab working in the Plasmonics field and related areas All academics bench scientists and industry professionals wishing to take advantage of the latest and greatest in the continuously emerging field of Plasmonics will find it an invaluable resource New Horizon of Plasmonics and Metamaterials Masafumi Kimata, Shinpei Ogawa, 2020-06-25 Plasmonics and metamaterials are growing fields that consistently produce new technologies for controlling electromagnetic waves Many important advances in both fundamental knowledge and practical applications have been achieved in conjunction with a wide range of materials structures and wavelengths from the ultraviolet to the microwave regions of the spectrum In addition to this remarkable progress across many different fields much of this research shares many of the same underlying principles and therefore significant synergy is expected This Special Issue introduces the recent advances in plasmonics and metamaterials and discusses various applications while addressing a wide range of topics in order to explore the new horizons emerging for such research Photonics, Plasmonics and Information Optics Arpan Deyasi, Pampa Debnath, Asit Kumar Datta, Siddhartha Bhattacharyya, 2021-04-18 This edited volume covers technological developments and current research trends in the field of photonics plasmonics and optics focusing on photonic crystals semiconductor optical devices optical communications and optical sensors with an emphasis on practical sectors It broadly contains the latest research domains contributed by experts and researchers in their respective fields with a major focus on the basic physics Works in the area of electromagnetic bandgap structures EBG and metasurfaces are included for applications in different aspects of communications systems Further it covers research phenomena of microwave photonic devices to develop miniaturized high frequency devices FEATURES Reviews nonlinear optical phenomena related with materials and crystals and plasmonic effects on device fabrications Contains a detailed analysis on photonic crystals with their applications in making all optical passive components Focusses on nonlinear optics more precisely on crystals and materials and computational aspects on evaluating their properties from Maxwell's equations Presents an extensive study on the physics of EBG structures for application in antenna and high frequency communications Includes metamaterials and metasurfaces for applications in photonics as well as in microwave engineering for high frequency communication systems

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Silicon-Based Photonics Erich Kasper, Jinzhong Yu, 2020-07-24 Silicon photonics has evolved rapidly as a research topic with enormous application potential. The high refractive index contrast of silicon on insulator SOI shows great promise for submicron waveguide structures suited for integration on the chip scale in the near infrared region Ge and GeSn Si heterostructures with different elastic strain levels already provide expansion of the spectral range high speed operation efficient modulation and switching of optical signals and enhanced light emission and lasing This book focuses on the integration of heterostructure devices with silicon photonics. The authors have attempted to merge a concise treatment of classical silicon photonics with a description of principles prospects challenges and technical solution paths of adding silicon based heterostructures. The book discusses the basics of heterostructure based silicon photonics system layouts and key device components keeping in mind the application background Special focus is placed on SOI based waveguide

configurations and Ge and GeSn Si heterostructure devices for light detection modulation and light emission and lasing The book also provides an overview of the technological and materials science challenges connected with integration on silicon The first half of the book is mainly for readers who are interested in the topic because of its increasing importance in different fields while the latter half covers different device structures for light emission detection modulation extension of the wavelength beyond 1 6 m and lasing as well as future challenges Optics in Our Time Mohammad D. Al-Amri, Mohamed El-Gomati, M. Suhail Zubairy, 2016-12-12 Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi popular level These articles are written by the world authorities in their respective fields This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner This volume covers five aspects related to light The first presents two articles one on the history of the nature of light and the other on the scientific achievements of Ibn Haitham Alhazen who is broadly considered the father of modern optics These are then followed by an article on ultrafast phenomena and the invisible world. The third part includes papers on specific sources of light the discoveries of which have revolutionized optical technologies in our lifetime They discuss the nature and the characteristics of lasers Solid state lighting based on the Light Emitting Diode LED technology and finally modern electron optics and its relationship to the Muslim golden age in science The book s fourth part discusses various applications of optics and light in today s world including biophotonics art optical communication nanotechnology the eye as an optical instrument remote sensing and optics in medicine In turn the last part focuses on quantum optics a modern field that grew out of the interaction of light and matter Topics addressed include atom optics slow stored and stationary light optical tests of the foundation of physics quantum mechanical properties of light fields carrying orbital angular momentum quantum communication and Wave Particle dualism in action Handbook of Silicon Photonics Laurent Vivien, Lorenzo Pavesi, 2016-04-19 The development of integrated silicon photonic circuits has recently been driven by the Internet and the push for high bandwidth as well as the need to reduce power dissipation induced by high data rate signal transmission To reach these goals efficient passive and active silicon photonic devices including waveguide modulators photodetectors

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