

Computational Nanophotonics

Modeling and
Applications

edited by
Sarhan M. Musa



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Computational Nanophotonics Computational Nanophotonics

Hwi Kim,Junghyun Park,Byoungho Lee



Computational Nanophotonics Computational Nanophotonics:

Computational Nanophotonics Sarhan Musa, 2018-10-08 This reference offers tools for engineers scientists biologists and others working with the computational techniques of nanophotonics It introduces the key concepts of computational methods in a manner that is easily digestible for newcomers to the field The book also examines future applications of nanophotonics in the technical industry and covers new developments and interdisciplinary research in engineering science and medicine It provides an overview of the key computational nanophotonics and describes the technologies with an emphasis on how they work and their key benefits

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Fourier Modal Method and Its Applications in Computational Nanophotonics Hwi Kim, Junghyun Park, Byoungcho 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

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Computational Nanophotonics in 3D Sjoerd Arthur Hack, 2019 *The Fourth International Workshop on Theoretical and Computational Nanophotonics*: Dmitry N. Chigrin, 2011-10-31 This proceedings would be of interest to Active

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The Fourth International Workshop on Theoretical and Computational Nanophotonics ,2011 Theoretical and Computational Nanophotonics (TaCoNa-Photonics 2009) ,2009 Integrated Nanophotonic Resonators Ya Sha Yi,2015-09-08 The rapid advancement of integrated optoelectronics has been driven considerably by miniaturization Following the path taken in electronics of reducing devices to their ultimately fundamental forms for instance single electron transistors now optical devices have also been scaled down creating the increasingly active research fields of integrat

Quantum Nano-Photonics Baldassare Di Bartolo,Luciano Silvestri,Maura Cesaria,John Collins,2018-09-19 This book brings together more closely researchers working in the two fields of quantum optics and nano optics and provides a general overview of the main topics of interest in applied and fundamental research The contributions cover for example single photon emitters and emitters of entangled photon pairs based on epitaxially grown semiconductor quantum dots nitrogen vacancy centers in diamond as single photon emitters coupled quantum bits based on trapped ions integrated waveguide superconducting nanowire single photon detectors quantum nano plasmonics nanosensing quantum aspects of biophotonics and quantum metamaterials The articles span the bridge from pedagogical introductions on the fundamental principles to the current state of the art and are authored by pioneers and leaders in the field Numerical simulations are presented as a powerful tool to gain insight into the physical behavior of nanophotonic systems and provide a critical complement to experimental investigations and design of devices

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