

# Diffractive Nanophotonics

Edited by  
**VICTOR A. SOIFER**



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# Diffraction Nanophotonics By Crc Press 2014 06 26

**Victor A Soifer**



## **Diffractive Nanophotonics By Crc Press 2014 06 26:**

**Diffractive Nanophotonics** Victor A Soifer, 2014-06-26 Diffractive Nanophotonics demonstrates the utility of the well established methods of diffractive computer optics in solving nanophotonics tasks It is concerned with peculiar properties of laser light diffraction by microoptics elements with nanoscale features and light confinement in subwavelength space regions Written by recognized experts in this field the book covers in detail a wide variety of advanced methods for the rigorous simulation of light diffraction The authors apply their expertise to addressing cutting edge problems in nanophotonics Chapters consider the basic equations of diffractive nanophotonics and related transformations and numerical methods for solving diffraction problems under strict electromagnetic theory They examine the diffraction of light on two dimensional microscopic objects of arbitrary shape and present a numerical method for solving the problem of diffraction on periodic diffractive micro and nanostructures This method is used in modern trends in nanophotonics such as plasmonics metamaterials and nanometrology The book describes the simulation of electromagnetic waves in nanophotonic devices and discusses two methods of calculating the spatial modes of microstructured photonic crystal fibres a relatively new class of optical fibres with the properties of photonic crystals The book explains the theory of paraxial and non paraxial laser beams with axial symmetry and an orbital angular momentum called vortex beams which are used for optical trapping and rotating micro and nanoparticles in a ring in the cross sectional plane of the beam The final chapter discusses methods for calculating the force and torque exerted by the electromagnetic field focused onto the microparticle of arbitrary form whose dimensions are comparable with the wavelength of light

**Optical Materials** Nikolay L. Kazanskiy, Vsevolod A. Kolpakov, 2017-03-31 This reference book concentrates on microstructuring surfaces of optical materials with directed fluxes of off electrode plasma generated by high voltage gas discharge and developing methods and equipment related to this technique It covers theoretical and experimental studies on the electrical and physical properties of high voltage gas discharges used to generate plasma outside an electrode gap A new class of methods and devices that makes it possible to implement a series of processes for fabricating diffraction microstructures on large format wafers is also discussed

**Frontiers in Optics and Photonics** Federico Capasso, Dennis Couwenberg, 2021-06-08 This book provides a cutting edge research overview on the latest developments in the field of Optics and Photonics All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics Optical properties of 2D Materials Optical Sensors Organic Opto electronics Nanophotonics Metamaterials Plasmonics Quantum Cascade lasers LEDs Biophotonics and biomedical photonics and spectroscopy

**Two-Dimensional Materials in Nanophotonics** Yuerui Lu, 2019-10-31 Two dimensional 2D materials have attracted tremendous interest since the study of graphene in the early 21st century With their thickness in the angstrom to nanometer range 2D materials including graphene transition metal dichalcogenides phosphorene silicene and other inorganic and organic materials can be an ideal platform to study fundamental many body interactions because of

reduced screening and can also be further engineered for nanophotonic applications This book compiles research outcomes of leading groups in the field of 2D materials for nanophotonic physics and devices It describes research advances of 2D materials for various nanophotonic applications including ultrafast lasers atomically thin optical lenses and gratings to inelastically manipulate light propagation their integrations with photonic nanostructures and light matter interactions The book focuses on actual applications while digging into the physics underneath It targets advanced undergraduate and graduate level students of nanotechnology and researchers in nanotechnology physics and chemistry especially those with an interest in 2D materials

*Optical MEMS, Nanophotonics, and Their Applications* Guangya Zhou, Chengkuo Lee, 2017-12-14 This book covers device design fundamentals and system applications in optical MEMS and nanophotonics Expert authors showcase examples of how fusion of nanoelectromechanical NEMS with nanophotonic elements is creating powerful new photonic devices and systems including MEMS micromirrors MEMS tunable filters MEMS based adjustable lenses and apertures NEMS driven variable silicon nanowire waveguide couplers and NEMS tunable photonic crystal nanocavities The book also addresses system applications in laser scanning displays endoscopic systems space telescopes optical telecommunication systems and biomedical implantable systems Presents efforts to scale down mechanical and photonic elements into the nano regime for enhanced performance faster operational speed greater bandwidth and higher level of integration Showcases the integration of MEMS and optical photonic devices into real commercial products Addresses applications in optical telecommunication sensing imaging and biomedical systems Prof Vincent C Lee is Associate Professor in the Department of Electrical and Computer Engineering National University of Singapore Prof Guangya Zhou is Associate Professor in the Department of Mechanical Engineering at National University of Singapore

**Diffractive Optics and Nanophotonics** V. A. Soifer, 2020-08-14 This book is devoted to achievements in diffractive optics focusing on the creation of new nanophotonic components and devices as well as instrumentation and available information technology

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**Nanophotonics and Plasmonics** Ching Eng Png, Yuriy Akimov, 2017 This book provides a first integrated view of nanophotonics and plasmonics covering the use of dielectric semiconductor and metal nanostructures to manipulate light at the nanometer scale The presentation highlights similarities and advantages and shows the common underlying physics targets and methodologies used for different materials optically transparent materials for nanophotonics vs opaque materials for plasmonics Ultimately the goal is to provide a basis for developing a unified platform for both fields In addition to the fundamentals and detailed theoretical background the book showcases the main device applications Ching Eng Jason Png is Director of the Electronics and Photonics Department at the Institute of High Performance Computing

Agency for Science Technology and Research Singapore Yuriy A Akimov is a scientist in the Electronics and Photonics Department at the Institute of High Performance Computing Agency for Science Technology and Research Singapore  
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