

S. Kawata
(Ed.)

Near-Field Optics and Surface Plasmon Polaritons



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Nearfield Optics And Surface Plasmon Polaritons

Thomas Christensen



Nearfield Optics And Surface Plasmon Polaritons:

Near-Field Optics and Surface Plasmon Polaritons Satoshi Kawata,2001-06-20 This up to date overview describes in detail the physics of localized surface plasmon polaritons excited near fine metallic structures and the principles of near field optics and microscopy related to this localized field It also covers wider fields from local spectroscopy to atom manipulation

Near-Field Optics and Surface Plasmon Polaritons Satoshi Kawata,2003-07-01 This book describes in detail the physics of localized surface plasmon polaritons excited near fine metallic structures and the principles of near field optics and microscopy related to this localized field It covers not only near field optical microscopy but also wider fields such as local spectroscopy nanoscale optical processing quantum near field optics and atom manipulation **Nano-optics and**

Near-field Optical Microscopy Anatoly V. Zayats,David Richards,2009 This groundbreaking book focuses on near field microscopy which has opened up optical processes at the nanoscale for direct inspection Further it explores the emerging area of nano optics which promises to make possible optical microscopy with true nanometer resolution This frontline resource helps you achieve high resolution optical imaging of biological species and functional materials You also find guidance in the imaging of optical device operation and new nanophotonics functionalities EBL *Manipulation of Near*

Field Propagation and Far Field Radiation of Surface Plasmon Polariton Lin Li,2017-05-29 This book mainly focuses on the study of steering electromagnetic fields in near field and far field contexts involving plasmonic structures It also offers a new approach to achieving full control of optical polarizations and potentially boosting the development in photonic information processing A new in plane phase modulation method is proposed and described by means of which a series of optical beams were realized with nanostructures in metal surfaces such as a plasmonic Airy beam broad band focusing beam and demultiplexing collimated beam as well as an optical orbital angular momentum OAM beam Further the book presents a plasmonic polarization generator which can reconfigure an input polarization to all kinds of states simultaneously

Quantum Theory of Near-Field Electrodynamics Ole Keller,2012-02-02 Quantum Theory of Near field Electrodynamics gives a self contained account of the fundamental theory of field matter interaction on a subwavelength scale The quantum physical behavior of matter atoms and mesoscopic media in both classical and quantum fields is treated The role of local field effects and nonlocal electrodynamics and the tight links to the theory of spatial photon localization are emphasized The book may serve as a reference work in the field and is of general interest for physicists working in quantum optics mesoscopic electrodynamics and physical optics The macroscopic and microscopic classical theories form a good starting point for the quantum approach and these theories are presented in a manner appropriate for graduate students entering near field optics

Surface Plasmon Nanophotonics Mark L. Brongersma,Pieter G. Kik,2007-09-18 This book discusses a new class of photonic devices known as surface plasmon nanophotonic structures The book highlights several exciting new discoveries while providing a clear discussion of the underlying physics the nanofabrication issues and the materials considerations

involved in designing plasmonic devices with new functionality Chapters written by the leaders in the field of plasmonics provide a solid background to each topic **Plasmonics** Ki Young Kim,2012-10-24 The title of this book Plasmonics Principles and Applications encompasses theory technical issues and practical applications which are of interest for diverse classes of the plasmonics The book is a collection of the contemporary researches and developments in the area of plasmonics technology It consists of 21 chapters that focus on interesting topics of modeling and computational methods plasmonic structures for light transmission focusing and guiding emerging concepts and applications **Handbook of Optofluidics** Aaron R. Hawkins,Holger Schmidt,2010-03-19 Optofluidics is an emerging field that involves the use of fluids to modify optical properties and the use of optical devices to detect flowing media Ultimately its value is highly dependent on the successful integration of photonic integrated circuits with microfluidic or nanofluidic systems Handbook of Optofluidics provides a snapshot of the s Advances in Nanophotonics Qihuang Gong,Zhi Li,Limin Tong,Yipei Wang,Yufei Wang,Wanhua Zheng,2017-12-18 Presents recent developments in theoretical and experimental research of nanophotonics Discusses properties and features of nanophotonic devices e g scanning near field optical microscopy nanofiber nanowire based photonic devices Illustrates the most promising nanophotonic devices and instruments and their application Suits well for researchers and graduates in nanophotonics field Contents Scanning near field optical microscopy Nanofibers nanowires and their applications in photonic components and devices Micro nano optoelectronic devices based on photonic crystal Fundamentals of Photonics Bahaa E. A. Saleh,Malvin Carl Teich,2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated **Handbook of Nanophysics** Klaus D. Sattler,2010-09-17 Covering the key theories tools and techniques of this dynamic field Handbook of Nanophysics Principles and Methods elucidates the general theoretical principles and measurements of nanoscale systems Each peer reviewed chapter contains a broad based introduction and enhances understanding of the state of the art scientific content through fund *Plasmonics and Super-Resolution Imaging* Zhaowei Liu,2017-06-26 Plasmonics

is an emerging field mainly developed within the past two decades Due to its unique capabilities to manipulate light at deep subwavelength scales plasmonics has been commonly treated as the most important part of nanophotonics Plasmonic assisted optical microscopy techniques especially super resolution microscopy have shown tremendous potential and attracted much attention This book aims to collect cutting edge studies in various optical imaging technologies with advanced performances that are enabled or enhanced by plasmonics The basic working principles development details and potential future direction and perspectives are discussed Edited by Zhaowei Liu a prominent researcher in the field of super resolution microscopy this book will be an excellent reference for anyone in the field of nanophotonics plasmonics and optical microscopy *Optical Near-Field Recording* Junji Tominaga,Takashi Nakano,2005-12-08 Optical disc industry is one of the successful businesses in the world and huge amounts of discs and drives have been spread all over the world More than a billion discs are produced and distributed every year Since the first optical discs Laser Discs and Compact Discs CD were shipped in the early 1980s they have rapidly dominated the world music market and DVDs will replace the video tape market in the near future The optical disc and drive technologies consist of the most advanced and integrated systems with regard to optics physics chemistry mathematics electronics mechanics and related subjects a huge number of scientists and engineers have engaged in the research and development of the systems One of the key factors of the development of the optical disc systems of course results in the availability of cheap stable and reliable semiconductor laser units Now you can store data up to 4.7GB on a single side of the 12 cm DVD and in the near future blue laser technology will allow storage of more than 20GB on the same size disc We should not however forget the other core technologies such as focusing the beam on the surface of a spinning disc precisely and encoding and decoding digital data The data capacity of optical discs has increased from 0.65GB to 25GB by the year 2003 and we certainly believe it will continue to increase with new technologies *Intelligent Energy Field Manufacturing* Wenwu Zhang,2018-10-03 Edited by prominent researchers and with contributions from experts in their individual areas *Intelligent Energy Field Manufacturing Interdisciplinary Process Innovations* explores a new philosophy of engineering An in depth introduction to Intelligent Energy Field Manufacturing EFM this book explores a fresh engineering methodology that not only integrates but goes beyond methodologies such as Design for Six Sigma Lean Manufacturing Concurrent Engineering TRIZ green and sustainable manufacturing and more This book gives a systematic introduction to classic non mechanical manufacturing processes as well as offering big pictures of some technical frontiers in modern engineering The book suggests that any manufacturing process is actually a process of injecting human intelligence into the interaction between material and the various energy fields in order to transfer the material into desired configurations It discusses technological innovation dynamic M-PIE flows the generalities of energy fields logic functional materials and intelligence the open scheme of intelligent EFM implementation and the principles of intelligent EFM The book takes a highly interdisciplinary approach that includes research frontiers such as micro nano fabrication high strain rate

processes laser shock forming materials science and engineering bioengineering etc in addition to a detailed treatment of the so called non traditional manufacturing processes which covers waterjet machining laser material processing ultrasonic material processing EDM ECM etc Filled with illustrative pictures figures and tables that make technical materials more absorbable the book cuts across multiple engineering disciplines The majority of books in this area report the facts of proven knowledge while the behind the scenes thinking is usually neglected This book examines the big picture of manufacturing in depth before diving into the deta

From Classical to Quantum Plasmonics in Three and Two Dimensions Thomas Christensen,2017-01-11 This thesis provides a comprehensive introduction to two active research directions within the field of plasmonics i nonclassical or quantum aspects of the plasmonic response and ii two dimensional plasmonics a recent innovation in the field stimulated by the advent of two dimensional materials It discusses the fundamentals of this field in detail and explores several current research directions Nonclassical plasmonics has been spurred on in recent years by the tremendous technological progress in nanofabrication and optical characterization today it is possible to investigate the plasmonic features of nanostructures with characteristic features in the few nanometer range The book describes and analyzes the breakdown of the classical theory under these conditions and explores several alternatives and extensions The unique electronic and dimensional features of novel two dimensional materials such as graphene lie at the core of plasmonics most rapidly developing subfield two dimensional plasmonics This thesis provides a clear and comprehensive exposition of the central features for interested researchers looking for an entry point to this riveting area

Photonic Crystals: Physics and Technology Concita Sibilis,Trevor M. Benson,Marian Marciniak,Tomasz Szoplik,2009-02-03 The aim of the work is give an overview of the activity in the field of Photonic Crystal developed in the frame of COST P11 action The main objective of the COST P11 action was to unify and coordinate national efforts aimed at studying linear and nonlinear optical interactions with Photonic Crystals PCs without neglecting an important aspect related to the material research as idea and methods of realizations of 3D PC together with the development and implementation of measurement techniques for the experimental evaluation of their potential applications in different area as for example telecommunication with novel optical fibers lasers nonlinear multi functionality display devices opto electronics sensors The book contains contributions from authors who gave their lecture at the Cost P11 Training School

Principles and Applications of NanoMEMS Physics Hector Santos,2006-07-02 Principles and Applications of NanoMEMS Physics presents the first unified exposition of the physical principles at the heart of NanoMEMS based devices and applications In particular after beginning with a comprehensive presentation of the fundamentals and limitations of nanotechnology and MEMS fabrication techniques the book addresses the physics germane to this dimensional regime namely quantum wave particle phenomena including the manifestation of charge discreteness quantized electrostatic actuation and the Casimir effect and quantum wave phenomena including quantized electrical conductance quantum interference Luttinger liquids quantum entanglement superconductivity and

cavity quantum electrodynamics Potential building blocks are also addressed for NanoMEMS applications including nanoelectromechanical quantum circuits and systems such as charge detectors the which path electron interferometer and the Casimir oscillator as well as a number of quantum computing implementation paradigms Finally NanoMEMS applications in photonics are addressed including nanophotonic light sources and plasmonic devices *Near-field Optics* Motoichi Ohtsu, Suganda Jutamulia, Toshimitsu Asakura, 1999 *Nanophotonics with Surface Plasmons*, 2006-12-18 Current developments in optical technologies are being directed toward nanoscale devices with subwavelength dimensions in which photons are manipulated on the nanoscale Although light is clearly the fastest means to send information to and from the nanoscale there is a fundamental incompatibility between light at the microscale and devices and processes at the nanoscale Nanostructured metals which support surface plasmon modes can concentrate electromagnetic EM fields to a small fraction of a wavelength while enhancing local field strengths by several orders of magnitude For this reason plasmonic nanostructures can serve as optical couplers across the nano micro interface metal dielectric and metal semiconductor nanostructures can act as optical nanoantennae and enhance light matter coupling in nanoscale devices This book describes how one can fully integrate plasmonic nanostructures into dielectric semiconductor and molecular photonic devices for guiding photons across the nano micro interface and for detecting molecules with unsurpassed sensitivity Nanophotonics and Nanoplasmonics Metamaterials and negative index materials Plasmon enhanced sensing and spectroscopy Imaging and sensing on the nanoscale Metal Optics **Radiative Heat Transfer** Michael F. Modest, 2013-02-20 The third edition of Radiative Heat Transfer describes the basic physics of radiation heat transfer The book provides models methodologies and calculations essential in solving research problems in a variety of industries including solar and nuclear energy nanotechnology biomedical and environmental Every chapter of Radiative Heat Transfer offers uncluttered nomenclature numerous worked examples and a large number of problems many based on real world situations making it ideal for classroom use as well as for self study The book s 24 chapters cover the four major areas in the field surface properties surface transport properties of participating media and transfer through participating media Within each chapter all analytical methods are developed in substantial detail and a number of examples show how the developed relations may be applied to practical problems Extensive solution manual for adopting instructors Most complete text in the field of radiative heat transfer Many worked examples and end of chapter problems Large number of computer codes in Fortran and C ranging from basic problem solving aids to sophisticated research tools Covers experimental methods

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