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Pieter G. Kik
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SPRINGER SERIES IN OPTICAL SCIENCES **131**

Surface Plasmon Nanophotonics

 Springer

Surface Plasmon Nanophotonics Springer Series In Optical Sciences

**Sai Sathish Ramamurthy, Seemesh
Bhaskar, Narendra Reddy**



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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 Tatjana Gric, 2018-11-21 Plasmonics gives researchers in universities and industries and 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.

Nanotechnology Harald Fuchs, 2009-03-16 The only reference book which discusses the usage of nanoprobe for structure determination in an industry where miniaturisation is the main focus. Designed for newcomers as well as professionals already in the industry.

Photonic Materials: Recent Advances and Emerging Applications Aavishkar Katti, Yogesh Sharma, 2023-01-24 This book is a review of photonic materials and their applications. It presents 14 chapters that give a snapshot of the field including basic sciences, photonics, plasmonics, advanced optics, nanophotonics and applications, renewable energy, fiber optics, lasers and smart materials. The book starts with a summary of recent developments in photonic crystal (PC) applications. This introduction is followed by chapters that present design concepts and investigations of PC devices such as All optical XOR gates using 2D photonic crystals, One dimensional PCs containing germanium (Ge), Graphene surface plasmonics, Nanophotonics and fiber optic lasers, Chalcogenides, Bragg Fibers and more. The broad range of topics make this an informative source on current and exciting photonics research and the variety of photonic materials. It serves as a reference for graduate scholars in physics and materials science and allied researchers who have a keen interest in photonics.

Handbook of Spectroscopy G nter Gauglitz, David S. Moore, 2014-06-09 This second thoroughly revised, updated and enlarged edition provides a straightforward introduction to spectroscopy showing what it can do and how it does it together with a clear, integrated and objective account of the wealth of information that may be derived from spectra. It also features new chapters on spectroscopy in nano dimensions, nano optics and polymer analysis. Clearly structured into sixteen sections, it covers everything from spectroscopy in nanodimensions to medicinal applications spanning a wide range of the electromagnetic spectrum and the physical processes involved from nuclear phenomena to molecular rotation processes. In

addition data tables provide a comparison of different methods in a standardized form allowing readers to save valuable time in the decision process by avoiding wrong turns and also help in selecting the instrumentation and performing the experiments These four volumes are a must have companion for daily use in every lab

The Transmission Electron Microscope Khan Maaz, 2012-04-04 The book The Transmission Electron Microscope contains a collection of research articles submitted by engineers and scientists to present an overview of different aspects of TEM from the basic mechanisms and diagnosis to the latest advancements in the field The book presents descriptions of electron microscopy models for improved sample sizing and handling new methods of image projection and experimental methodologies for nanomaterials studies The selection of chapters focuses on transmission electron microscopy used in material characterization with special emphasis on both the theoretical and experimental aspect of modern electron microscopy techniques I believe that a broad range of readers such as students scientists and engineers will benefit from this book

Plasmonic Devices Employing Extreme Light Concentration Ragip Pala, 2010 The development of integrated electronic and photonic circuits has led to remarkable data processing and transport capabilities that permeate almost every facet of our daily lives Scaling these devices to smaller and smaller dimensions has enabled faster more power efficient and inexpensive components but has also brought about a myriad of new challenges One very important challenge is the growing size mismatch between electronic and photonic components To overcome this challenge we will need to develop radically new device technologies that can facilitate information transport between nanoscale components at optical frequencies and form a bridge between the world of nano electronic and micro photonics Plasmonics is an exciting new field of science and technology that aims to exploit the unique optical properties of metallic nanostructures to gain a new level of control over light matter interactions The use of nanometallic plasmonic structures may help bridge the size gap between the two technologies and enable an increased synergy between chip scale electronics and photonics In the first part of this dissertation we analyze the performance of a surface plasmon polariton all optical switch that combines the unique physical properties of small molecules and metallic plasmonic nanostructures The switch consists of a pair of gratings defined on an aluminum film coated with a thin layer of photochromic PC molecules The first grating couples a signal beam consisting of free space photons to SPPs that interact effectively with the PC molecules These molecules can reversibly be switched between transparent and absorbing states using a free space optical pump In the transparent signal on state the SPPs freely propagate through the molecular layer and in the absorbing signal off state the SPPs are strongly attenuated The second grating serves to decouple the SPPs back into a free space optical beam enabling measurement of the modulated signal with a far field detector We confirm and quantify the switching behavior of the PC molecules by using a surface plasmon resonance spectroscopy The quantitative experimental and theoretical analysis of the nonvolatile switching behavior guides the design of future nanoscale optically or electrically pumped optical switches In the second part of the dissertation we provide a critical assessment of the opportunities for use of

plasmonic nanostructures in thin film solar cell technology Thin film solar cells have attracted significant attention as they provide a viable pathway towards reduced materials and processing costs Unfortunately the materials quality and resulting energy conversion efficiencies of such cells is still limiting their rapid large scale implementation The low efficiencies are a direct result of the large mismatch between electronic and photonic length scales in these devices the absorption depth of light in popular PV semiconductors tends to be longer than the electronic minority carrier diffusion length in deposited thin film materials As a result charge extraction from optically thick cells is challenging due to carrier recombination in the bulk of the semiconductor We discuss how light absorption could be improved in ultra thin layers of active material making use of large scattering cross sections of plasmonic structures We present a combined computational experimental study aimed at optimizing plasmon enhanced absorption using periodic and non periodic metal nanostructure arrays Nano-Engineering at Functional Interfaces for Multidisciplinary Applications Sai Sathish Ramamurthy, Seemesh Bhaskar, Narendra Reddy, 2024-10-18 Nano Engineering at Functional Interfaces for Multi disciplinary Applications Electrochemistry Photoplasmonics Antimicrobials and Anticancer Applications provides a comprehensive overview of the fundamentals and latest advances of nano engineering strategies for the design development and fabrication of novel nanostructures for different applications in the fields of photoplasmonics and electrochemistry as well as antibacterial and anticancer research areas The book begins with an introduction to the fundamentals and characteristics of nanostructured interfaces and their associated technologies including an overview of their potential applications in different fields The following chapters present a thorough discussion of the synthesis processing and characterization methods of nanomaterials with unique functionalities suitable for energy harvesting food and textile applications electrocatalysis biomedical applications and more It then concludes outlining research future directions and potential industrial applications Presents the advantages and impact of nano engineering in technological advances with up to date discussions on their applications Covers research directions and potential future applications of nano engineering in industry Includes case studies that illustrate important processes

Nanophotonics Arthur McGurn, 2018-04-27 This book gives a readable introduction to the important rapidly developing field of nanophotonics It provides a quick understanding of the basic elements of the field allowing students and newcomers to progress rapidly to the frontiers of their interests Topics include The basic mathematical techniques needed for the study of the materials of nanophotonic technology photonic crystals and their applications as laser resonators waveguides and circuits of waveguides the application of photonic crystals technology in the design of optical diodes and transistors the basic properties needed for the design and understanding of new types of engineered materials known as metamaterials and a consideration of how and why these engineered materials have been formulated in the lab as well as their applications as negative refractive index materials as perfect lens as cloaking devices and their effects on Cherenkov and other types of radiation Additionally the book introduces the new field of plasmonics and reviews its important features The role of plasmon

polaritons in the scattering and transmission of light by rough surfaces and the enhanced transmission of light by plasmon polariton supporting surfaces is addressed. The important problems of subwavelength resolution are treated with discussions of applications in a number of scientific fields. The basic principles of near field optical microscopy are presented with a number of important applications. The basics of atomic cavity physics, photonic entanglement and its relation to some of the basic properties of quantum computing and the physics associated with the study of optical lattices are presented.

Plasmonics: Fundamentals and Applications Stefan Alexander Maier, 2007-05-16. Considered a major field of photonics, plasmonics offers the potential to confine and guide light below the diffraction limit and promises a new generation of highly miniaturized photonic devices. This book combines a comprehensive introduction with an extensive overview of the current state of the art. Coverage includes plasmon waveguides, cavities for field enhancement, nonlinear processes and the emerging field of active plasmonics, studying interactions of surface plasmons with active media. **Plasmonics** Satoshi Kawata, Vladimir M. Shalaev, Din P. Tsai, Society of Photo-optical Instrumentation Engineers, 2006. Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature. **Optomechatronic**

Micro/nano Devices and Components, 2005. **Plasmonics** Stefan Enoch, Nicolas Bonod, 2015-06-26. This book deals with all aspects of plasmonics: basics, applications and advanced developments. Plasmonics is an emerging field of research dedicated to the resonant interaction of light with metals. The light-matter interaction is strongly enhanced at a nanometer scale, which sparks a keen interest of a wide scientific community and offers promising applications in pharmacology, solar energy, nanocircuitry or also light sources. The major breakthroughs of this field of research originate from the recent advances in nanotechnology, imaging and numerical modelling. The book is divided into three main parts: extended surface plasmons, polaritons propagating on metallic surfaces, surface plasmons localized on metallic particles, imaging and nanofabrication techniques. The reader will find in the book: Principles and recent advances of plasmonics; a complete description of the physics of surface plasmons; a historical survey with emphasis on the emblematic topic of Wood's anomaly; an overview of modern applications of molecular plasmonics; and an extensive description of imaging and fabrications techniques. **Chiral Nanophotonics** Martin Schäferling, 2016-11-11. This book describes the physics behind the optical properties of plasmonic nanostructures focusing on chiral aspects. It explains in detail how the geometry determines chiral near fields and how to tailor their shape and strength. Electromagnetic fields with strong optical chirality interact strongly with chiral molecules and therefore can be used for enhancing the sensitivity of chiroptical spectroscopy techniques. Besides a short review of the latest results in the field of plasmonically enhanced enantiomer discrimination, this book introduces the concept of chiral plasmonic near field sources for enhanced chiroptical spectroscopy. The discussion of the fundamental

properties of these light sources provides the theoretical basis for further optimizations and is of interest for researchers at the intersection of nano optics plasmonics and stereochemistry

Optomechatronic Micro/nano Components, Devices, and Systems Yoshitada Katagiri, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

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

IEICE Transactions on Electronics , 2007 **Nanodevices for the Life Sciences** Challa S. S. R. Kumar, 2006-09-22 This volume is the first to combine in one book both nanodevice assembly from biomaterials as well as nanodevices of non biological materials for use in the life sciences showing how both kinds can be used in the context of nanoscale research As such it covers the important material classes for device assembly fullerenes carbon nanotubes kinesine microtubules as well as a wide range of applications including sensory systems analytics bioelectronics drug delivery and bioNEMS The result is a systematic coverage of all stages of research and development physics and fundamentals modeling device fabrication strategies material aspects and applications

Nanophotonics, Nanostructure, and Nanometrology Xing Zhu, Stephen Yu Chou, Yasuhiko Arakawa, Society of Photo-optical Instrumentation Engineers, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Nanophotonics David L. Andrews, Jean-Michel Nunzi, Andreas Ostendorf, 2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields

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