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(Y-Polarization)



Optical fiber

# Metasurface For Characterization Of The Polarization State

**Pradeep Kumar Kondamuri**



## **Metasurface For Characterization Of The Polarization State:**

**Coded Optical Imaging** Jinyang Liang,2024-03-19 This book provides a comprehensive survey of coded optical imaging Illustrated with 386 figures it takes readers from the fundamental concepts and theories to the latest research and applications in this field It can be used in graduate level courses in optics and photonics It can also benefit scientists and engineers in optical imaging computer graphics and other related disciplines This book starts from a brief history of coded optical imaging and key operations in its data acquisition and image reconstruction It then presents the latest progress in technological development and applications in the areas of biomedicine materials science industrial inspection optical physics imaging science information theory and more Chapters describe the most representative techniques exposing readers to key research themes including Optical signal encoding Image reconstruction techniques Compressed sensing Artificial intelligence Metasurface Structured light Lensless imaging Holography Tomography Light field imaging Ultrafast imaging Hyperspectral imaging Polarization imaging Super resolution imaging [Encyclopedia of Interfacial Chemistry](#) ,2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions **Metasurfaces: Towards Tunable and Reconfigurable Meta-devices** Weiming Zhu,Ai-Qun Liu,2022-11-30 Metamaterials and metasurfaces are developing exciting new frontier researches on reconfigurable materials with promising applications on tunable and active devices The combination of metamaterials and microsystems not only uncap the controllability limits of optical metamaterials but also pave the way for vast applications This book focuses on structural reconfiguration of metasurfaces and metamaterials using microsystems which have previously been developed for tiny machines and droplets formations It covers multi disciplinary researches on reconfigurable metamaterials and metasurfaces revealing their potential applications on densely integrated devices with working frequencies ranging from GHz to infrared region Topics like MEMS metamaterials frequency selective surface photonic reconfigurable metasurfaces and microfluidic metamaterials are just a few examples which present lively research communities within the scope of this book This book is intended for undergraduate and graduate students who are interested in fundamental science and technology of micro optics and artificial materials researchers in the field of reconfigurable and tunable metamaterials and

engineers working on tunable lens Lidar beam steering devices or other applications Frontiers in Physics - Rising Stars  
Alex Hansen, Ewald Moser, Matjaž Perc, Lorenzo Pavesi, Rudolf von Steiger, Nicholas X. Fang, J. W. F. Valle, Jan De Boer, Christian F. Klingenberg, Laura Elisa Marcucci, Jasper Van Der Gucht, Alexandre M. Zagoskin, 2021-10-04

Semiconductor Metasurfaces, Part 1, 2024-10-25 Semiconductor Metamaterials Part One Volume 116 in a two part series surveys the state of the art in material platforms for optical metasurfaces Chapters cover Metasurfaces from materials with 2nd order nonlinearity Light Emitting Metasurfaces based on Direct Bandgap Semiconductors Tunable Metasurfaces enabled by Phase Change Materials Phase Transition Materials for Thermal Tuning of Metasurfaces Tunable Metasurface Devices based on Soft Matter Infrared Metasurfaces Polarization Sensing Platforms UV Visible Metasurfaces and Metasurfaces for Catalysis Chemistry Provides the most important aspects of the semiconductor materials platforms that are used for optical metasurfaces Considers both static and dynamic metasurfaces Covers the entire EM spectrum from UV to visible and IR light

**Broadband Metamaterials in Electromagnetics** Douglas H. Werner, 2017-07-06 The rapid development of technology based on metamaterials coupled with the recent introduction of the transformation optics technique provides an unprecedented ability for device designers to manipulate and control the behavior of electromagnetic wave phenomena Many of the early metamaterial designs such as negative index materials and electromagnetic bandgap surfaces were limited to operation only over a very narrow bandwidth However recent groundbreaking work reported by several international research groups on the development of broadband metamaterials has opened up the doors to an exciting frontier in the creation of new devices for applications ranging from radio frequencies to visible wavelengths This book contains a collection of eight chapters that cover recent cutting edge contributions to the theoretical numerical and experimental aspects of broadband metamaterials

**Holography and Its Applications** Michael R. Wang, 2025-05-28 Optical holography is a promising non contact 3D imaging technique Effectively using the coherence property of the light the optical holography can store the interference information of the object light beam with the reference light beam in a holographic recording medium or a digital camera and retrieve read out the 3D image information Optical holography offers storage three dimensional imaging and displays industrial non destructive testing and surface profiling virtual and augmented reality holographic teleconferencing and product design and prototyping This book presents a few recent advancements in holography and its applications

Tunable and Reconfigurable Optical Metamaterials Yuancheng Fan, Qian Zhao, Fuli Zhang, Nianhai Shen, 2021-10-13 *Characterization of Partially Polarized Light Fields* Rosario Martínez-Herrero, Pedro M. Mejías, Gemma Piquero, 2009-07-21 Polarization involves the vectorial nature of light fields In current applications of optical science the electromagnetic description of light with its vector features has been shown to be essential In practice optical radiation also exhibits randomness and spatial non uniformity of the polarization state Moreover propagation through photonic devices can alter the correlation properties of the light field resulting in changes in polarization All these vectorial properties have been

gaining importance in recent years and they are attracting increasing attention in the literature This is the framework and the scope of the present book which includes the authors own contributions to these issues *Experimental characterization of nonclassical polarization states of intense light*, 2006 **Light Polarization in Strongly Confined Fields** Matteo Savoini, 2010 [Polarization Control and Measurement with Meta-optics](#) Muhammad Aun Abbas Zaidi, 2019 Metasurfaces are artificially engineered arrays of subwavelength phase shifting elements which if designed with explicit polarization dependence provide a fascinating platform for new polarization optics In this thesis we present metasurface diffraction gratings designed to produce arbitrarily specified polarization states on a set of defined diffraction orders given that the polarization of the incident beam is known The metasurface diffraction gratings are designed using gradient descent optimization followed by a metasurface specific optimization scheme We also design and implement a metasurface grating that when used in the reverse configuration may be used as a parallel snapshot polarimeter requiring minimum of standard bulk polarization optics We demonstrate its use in measuring partially polarized light and show its performance compares favourably with a commercial polarimeter for the degree of polarization DOP measurements we observed a standard deviation of  $\sigma = 1.6\%$  and a mean difference of  $\mu = 0.6\%$  and for the state of polarization SOP parameters azimuth  $\chi$  and ellipticity  $\epsilon$  we observe standard deviations of  $\sigma = 1.320$  and  $\sigma = 0.43$  respectively This work is of potential interest in any application requiring compact lightweight and low cost polarization dependent optics polarization sensing or polarization imaging **Arbitrary Polarization Control with Reconfigurable Metasurface Systems** Evan Wen Wang, 2022 The fundamental motivation of this work is the lack of versatile polarization components In particular while there exist methods for creating fixed achromatic waveplates and for tuning the birefringence of single wavelength waveplates there is no universal waveplate that both works over a broad wavelength range and can be reconfigured to a desired retardance We will show how metasurfaces ultra thin nanophotonics devices can be combined to create systems capable of achromatic reconfigurable birefringence using a novel dual metasurface platform These systems rely on symmetry breaking through micro scale displacements to modify the polarization state of incident light We analyze these systems both theoretically and characterize them experimentally In addition we generalize this method beyond the naturally occurring basis of linear polarization to entirely arbitrary polarization bases These arbitrary elliptical waveplates provide versatility for on demand polarization control We further show how these reconfigurable systems can be cascaded to form systems that are capable of generating arbitrary polarization states from a given input polarization This polarization state generation is shown to be achromatic and has the potential for ultra fast tuning speeds *Electromagnetic Wave Control Techniques of Metasurfaces and Metamaterials* Wen, Jingda, 2024-07-23 In the ever evolving landscape of electromagnetic wave control researchers face the pressing challenge of keeping pace with the rapid advancements in metasurface and metamaterial methods As these technologies become increasingly integral to various engineering applications educators and researchers

seek a comprehensive resource that outlines the current state of the field and offers insights into its future prospects. *Electromagnetic Wave Control Techniques of Metasurfaces and Metamaterials* emerges as a timely solution providing a detailed overview and a forward looking perspective on wave control research using metasurfaces and metamaterials. With a firm focus on bridging the gap between theory and application, this book meets the critical need for a comprehensive understanding of key topics such as frequency selective surfaces, metasurface and metamaterial absorbers, reflectors, and the integration of deep learning and machine learning in these domains. This book equips readers with the knowledge and tools necessary to tackle real world challenges in wavefront control, beam steering, and phase control by delving into the intricacies of broadband metasurfaces, metamaterials, and the underlying physics. Furthermore, it explores the unique capabilities of chiral metasurfaces and metamaterials, illuminating their diverse engineering applications and empowering the readers with practical insights.

*Polarization Mode Dispersion Characterization* Pape Maguette Sylla, 2001

*Metasurfaces with Plasmon-enhanced Birefringence and Polarization Rotation* Young Hwa Kim, 2013

Metasurfaces are surface metamaterials and they can be configured to manipulate the optical polarization. In this thesis, the effects of plasmon enhanced birefringence in producing polarization rotation are studied. The research works introduce and demonstrate novel designs of the sub-wavelength chiral metasurfaces utilizing plasmonic enhancement to produce giant polarization rotation. Chapter 1 serves as the introduction as it briefly introduces the principles that are covered in the research. Chapter 2 is the theory chapter that discusses the electromagnetic theories that are involved in the proposed metasurfaces. In the final chapter, Chapter 3 presents the computational analysis of the proposed metasurfaces with different metamolecule structures. The methods are proposed to obtain giant polarization rotation using metasurfaces formed from planar arrays of metamolecules that consist of achiral plasmonic nanostructures encapsulated within a chiral patterned lossless dielectric layer. At plasmon resonance, the sub-wavelength nano-inclusions produce enhanced polarization of the surrounding dielectric, which gives rise to polarization rotation in the transmitted field. Full wave electromagnetic analysis is used to investigate the optical response of various media as a function of the symmetry and spacing of the metamolecules. The analysis shows that the metamolecules can be configured to produce frequency selective and polarization sensitive giant polarization rotation exceeding  $10^5$  deg/mm in the visible to near infrared spectrum with relatively low loss. The proposed method opens up opportunities for the development of versatile ultra-thin media that can manipulate the polarization state of light for novel micro-optical applications.

**Polarization Mode Dispersion Characterization by Time-resolved Stokes Parameters of Optical Pulses** Shuo-Yen Tseng, 2002

**Characterization of Polarization-mode Dispersion on Buried Standard Single-mode Fibers** Pradeep Kumar Kondamuri, 2002

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