



Sculptured Thin Films

Nanoengineered Morphology and Optics

Achlesh Lakhtakia

Russell Messier

Sculptured Thin Films Nanoengineered Mor

Akhlesh Lakhtakia, R. Messier



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Sculptured Thin Films Akhlesh Lakhtakia, R. Messier, 2005 Sculptured thin films (STFs) are a class of nanoengineered materials with properties that can be designed and realized in a controllable manner using physical vapor deposition. This text, presented as a short course at the SPIE Optical Science and Technology Symposium, couples detailed knowledge of thin film morphology with the optical response characteristics of STF devices. An accompanying CD contains Mathematica™ programs for use with the presented formalisms. Thus, readers will learn to design and engineer STF materials and devices for future applications, particularly with optical applications. Graduate students in optics and practicing optical engineers will find the text valuable as well as those interested in emerging nanotechnologies for optical devices. **More Adventures in Contemporary Electromagnetic Theory** Francesco Chiadini, Vincenzo Fiumara, 2025-05-10 This book describes some recent advances in electromagnetic theory motivated and partly informed by developments in engineering science and nanotechnology. The collection of chapters provided in this edited book, authored by leading experts in the field, offers a bird's-eye view of recent progress in electromagnetic theory spanning a wide range of topics of current interest ranging from fundamental issues to applications. *Electromagnetic Anisotropy and Bianisotropy* Tom G. Mackay, Akhlesh Lakhtakia, 2010 The topics of anisotropy and bianisotropy are fundamental to electromagnetics from both theoretical and experimental perspectives. These properties underpin a host of complex and exotic electromagnetic phenomena in naturally occurring materials and in relativistic scenarios as well as in artificially produced metamaterials. As a unique guide to this rapidly developing field, the book provides a unified presentation of key classic and recent results on the studies of constitutive relations, spacetime symmetries, planewave propagation, dyadic Green functions, and homogenization of composite materials. This book also offers an up-to-date extension to standard treatments of crystal optics with coverage on both linear and weakly nonlinear regimes. **Sample Chapter s** Chapter 1 The Maxwell Postulates and Constitutive Relations 380 KB Contents The Maxwell Postulates and Constitutive Relations Linear Mediums Spacetime Symmetries and Constitutive Dyadics Planewave Propagation Dyadic Green Functions Homogenization Nonlinear Mediums Readership Academics and professionals interested in crystal optics and electromagnetic fields in complex materials including anisotropic, bianisotropic, and chiral materials and metamaterials. **Robotics—Advances in Research and Application: 2012 Edition**, 2012-12-26 *Robotics Advances in Research and Application 2012 Edition* is a ScholarlyEditions eBook that delivers timely, authoritative, and comprehensive information about Robotics. The editors have built *Robotics Advances in Research and Application 2012 Edition* on the vast information databases of ScholarlyNews. You can expect the information about Robotics in this eBook to be deeper than what you can access anywhere else as well as consistently reliable, authoritative, informed, and relevant. The content of *Robotics Advances in Research and Application 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is

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Electromagnetic Materials - Proceedings Of The Symposium R Hock Lim, Serguei Matitsine, Yeow Beng Gan, 2005-06-24 This volume comprises the main ideas and the latest results in the study of electromagnetic materials as presented at the Symposium on Electromagnetic Materials ICMAT 2005 The high quality contributions reflect the principle aims of the conference to provide an international forum for scientists and engineers to report their most recent research findings to exchange ideas and information and to nurture and establish research ties Electromagnetic materials have both civilian and defence applications such as novel antenna designs protection against high power transients in densely packed printed circuits and special frequency response or polarization response to meet component or system specifications An in depth understanding of the responses of materials to electromagnetic waves may even enable us to design and fabricate materials with properties not found in nature

Frontiers in Optical Technology P. K. Choudhury, Onkar N. Singh, 2007 This book maps out the frontiers of optical technology in two major subdisciplines optical materials and optical devices The optical materials and material architectures covered include nanostructured silicon chiral sculptured thin films magnetic photonic crystals and switchable materials for efficient lighting and decorative optics The optical devices addressed include silicon waveguides for integrated circuitry high speed electro optic modulators laser diodes coupled with fibre tip lenses and optical sensors Reading the ten chapters either altogether or piecemeal the reader will receive a virtually up to date review of the state of the art

Micro-Nano Technology XVI Fei Tang, 2015-05-18 Selected peer reviewed papers from the 16th Annual Conference and 5th International Conference of the Chinese Society of Micro Nano Technology CSMNT 2014 August 31 September 3 2014 Chengdu China

Introduction to Complex Mediums for Optics and Electromagnetics Werner S. Weiglhofer, Akhlesh Lakhtakia, 2003 Complex mediums electromagnetics CME describes the study of electromagnetic fields in materials with complicated response properties This truly multidisciplinary field commands the attentions of scientists from physics and optics to electrical and electronic engineering from chemistry to materials science to applied mathematics biophysics and nanotechnology This book is a collection of essays to explain complex mediums for optical and electromagnetic applications All contributors were requested to write with two aims first to educate second to provide a state of the art review of a particular subtopic The vast scope of CME exemplified by the actual materials covered in the essays should provide a plethora of opportunities to the novice and the initiated alike

1996 Asia-Pacific Microwave Conference Proceedings Dr. R. S. Gupta, 1996

Canadian Journal of Physics, 2013

Proceedings, 2000

Complex Systems Michio Tokuyama, Irwin Oppenheim, Hideya Nishiyama, 2008-03-10 Sendai Japan 25 28 September 2007

Directory of Business Information Resources Laura Mars-Proietti, 2008

Dissertation Abstracts International, 2004

Selected Papers on Linear Optical Composite Materials Akhlesh Lakhtakia, 1996 Topics in this volume include

a physical model for the daguerrotype experimental relations of gold electromagnetic properties of random material and local field effects and effective medium theory a microscopic perspective Issues in General Physics Research: 2012 Edition, 2013-01-10 Issues in General Physics Research 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Physics Research The editors have built Issues in General Physics Research 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Physics Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General Physics Research 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Complex Mediums, 2002 Books Out Loud, 2007 **BROADBAND OPTICAL RESPONSES OF CHIRAL SCULPTURED THIN FILMS DEPOSITED ON PLANAR AND NON-PLANAR SUBSTRATES**. Sema Erten, 2018 Sculptured thin films STFs are classified as nanoengineered metamaterials whose morphology can be altered during deposition STFs are generally fabricated via physical vapor deposition PVD techniques 1 A chiral STF is an assembly of identical and parallel nanohelices In order to deposit a chiral STF the substrate holder in the vacuum chamber of a thermal evaporation system should be tilted at a fixed angle and rotated at a constant rate during deposition Chiral STFs exhibit the circular Bragg phenomenon CBP when interacting with circularly polarized incident light Also they can be used to excite multiple surface plasmon polariton SPP waves when deposited on top of a metallic grating The CBP is described as circular polarization selective reflection It occurs when circularly polarized light is incident on a film of a structurally chiral material exemplified by cholesteric liquid crystals CLCs and chiral STFs When the handedness of the circularly polarized incident light matches the structural handedness of the structurally chiral material with a sufficient thickness the incident light is highly reflected in a specific wavelength regime If the handedness of the circularly polarized light and structural handedness of the film are mismatched the reflection is very little 2 The CBP has been exploited for various optical applications such as circular polarization filters and reflectors SPP waves propagate along the interface of a metal and a dielectric material Similar to any other surface wave SPP waves are sensitive to irregularities near the interface Only one SPP wave can be excited when the dielectric material is homogeneous When the dielectric material is replaced by a non homogeneous one the direction of non homogeneity being normal to the interface more than one SPP wave can be excited The multiplicity of SPP waves at a specific frequency when the non metallic partnering material is periodically non homogeneous offers advantages for optical sensing of analytes For this dissertation the broadband responses of chiral STFs deposited on planar and non planar substrates were investigated The objective was to experimentally investigate and qualitatively if not

quantitatively prove theoretical predictions about the optical responses of chiral STFs. The motivation was to design and engineer chiral STFs for optical applications and devices. The dissertation has four main chapters based on: i) The CBP exhibited by chiral STFs for oblique angles of incidence; ii) The CBP exhibited by mirror backed chiral STFs for oblique angles of incidence; iii) Dual band circular polarization filters; and iv) Excitation of multiple SPP waves guided by the interface of a chiral STF and a one dimensional 1D metallic grating. The first main chapter is focused on the investigation of the CBP for oblique angles of incidence to experimentally prove theoretical predictions. Chiral STFs of zinc selenide were deposited on BK7 glass substrates by thermal evaporation. Specular and non specular reflectance and transmittance data were collected using a custom made experimental set up. The results clearly indicated the circular Bragg regime for all angles of incidence investigated. A blue shift in the wavelength regime of the CBP with increasing angle of incidence was observed. The results are in good agreement with previous theoretical predictions qualitatively. The second one is a follow up study to understand the exhibition of the CBP when the transmittance is blocked. A chiral STF was backed by a highly reflective mirror and the reflectance spectrums were measured. The results indicated that when the transmittance is blocked all remittances show evidence of the CBP instead of just one remittance. The third one is focused on a novel strategy for fabricating dual band circular polarization filters. For this study chiral STFs of zinc selenide were deposited on both sides of a substrate by the serial bideposition SBD technique. The transmittance data were collected for normally incident light. Two different circular Bragg regimes were observed centered at different wavelengths. The last main chapter is focused on exciting multiple SPP waves guided by the interface of a chiral STF and a metallic grating. The chiral STFs were deposited by the thermal evaporation technique on 1D metallic gratings. The specular and non specular transmittance and reflectance measurements were completed using a custom made variable angle spectroscopic system. At least three different SPP waves were excited experimentally. The results can be used to increase the sensing capabilities of SPP wave based sensors by increasing the number of analytes that can be detected at a time. The practicality of such sensors can be increased due to the fact that there is no need for a prism to excite SPP waves when employing the grating coupled configuration.

Processing and Characterization of Nano-engineered Thin Films Mauricio E. Guzman, 2013. Nanoparticle based thin films are an emerging type of material with extraordinary electrical, mechanical, and physical properties. Because of their exceptional characteristics, these thin films can serve as reinforcement or conductive semi-conductive sheets in composite and electronic systems. While most thin films comprise a structure of random nanoparticle network, the ability to produce high quality films depends on how to minimize inter-filler junction effects between filaments. This study presents a novel processing technique to fabricate thin films composed of functionalized carbon nanofibers (CNFs). The two-step process combines solution filtering and mechanical compression through a rolling process to form dense CNF thin films of uniform thickness. Electron micrographs show a remarkable change in surface morphology for all rolled films; the film morphology becomes more uniform.

and compact due to nanofiber displacement with mechanical compression Test results show that tensile strength and electrical conductivity of surfactant treated CNF films are inferior to those of oxidized CNF films Based on these findings it is suggested that surfactant significantly hinders the interaction between particles Regarding the rolling effect on the oxidized CNF films results show that strength and conductivity of rolled films improve by 400% with respect to the non rolled films By not having surfactant it appears that the oxidized nanofibers can participate in higher intermolecular interactions and form an interlocking mechanism when forced into close proximity Upon fracture electron micrographs reveal significant pull out and alignment of nanofibers for surfactant treated CNF films as a result of particle slippage while nanofiber fragmentation is identified for oxidized CNF films suggesting higher fiber fiber interaction within the dense entangled network Hence the methodology presented herein is an effective route to reduce inter filler junction between nanofibers and to produce thin films with superior properties

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