

THIN FILMS AND NANOSTRUCTURES

***WAVEGUIDE
SPECTROSCOPY
OF THIN FILMS***

A.V. Khomchenko

VOLUME 33

Waveguide Spectroscopy Of Thin Films Volume 33 Thin Films And Nanostructures

Joachim Piprek



Waveguide Spectroscopy Of Thin Films Volume 33 Thin Films And Nanostructures:

Waveguide Spectroscopy of Thin Films Alexander Vasil'evich Khomchenko, 2005-12-19 In *Waveguide Spectroscopy of Thin Films* new methods of study of the linear and nonlinear optical properties of thin films are presented These techniques are based on the principles of the spatial Fourier spectroscopy of the light beam reflected from a prism coupling device with the tunnel excitation of guided lightmodes in thin film structures Measurement techniques of determination of the absorption coefficient refractive index and thickness of the dielectric semiconductor or metallic films are considered This book is highly recommended for specialists in the fields of integrated and thin film optics and for graduated students in related specialties

There are new techniques of measurement of thin film parameters stated **Physico-Chemical Phenomena in Thin Films and at Solid Surfaces**, 2007-06-07 The book is devoted to the consideration of the different processes taking place in thin films and at surfaces Since the most important physico chemical phenomena in such media are accompanied by the rearrangement of an intra and intermolecular coordinates and consequently a surrounding molecular ensemble the theory of radiationless multi vibrational transitions is used for its description The second part of the book considers the numerous surface phenomena And in the third part is described the preparation methods and characteristics of different types of thin films Both experimental and theoretical descriptions are represented Media rearrangement coupled with the reagent transformation largely determines the absolute value and temperature dependence of the rate constants and other characteristics of the considered processes These effects are described at the atomic or molecular level based on the multi phonon theory starting from the first pioneering studies through to contemporary studies A number of questions are included at the end of many chapters to further reinforce the material presented Unified approach to the description of numerous physico chemical phenomena in different materials Based on the pioneering research work of the authors Explanation of a variety of experimental observations Material is presented at two levels of complexity for specialists and non specialists Identifies existing and potential applications of the processes and phenomena Includes questions at the end of some chapters to further reinforce the material discussed **Cu(In_{1-x}Gax)Se₂ Based Thin Film Solar Cells** Subba Ramaiah

Kodigala, 2011-01-03 *Cu In_{1-x}Gax Se₂ Based Thin Film Solar Cells* provides valuable contents about the fabrication and characterization of chalcopyrite Cu In_{1-x}Gax Se₂ based thin film solar cells and modules The growth of chalcopyrite Cu In_{1-x}Gax S_{1-y}Se_{2-y} absorbers buffers window layers antireflection coatings and finally metallic grids which are the sole components of solar cells is clearly illustrated The absorber which contains multiple elements segregates secondary phases if the growth conditions are not well optimized i e the main drawback in the fabrication of solar cells More importantly the solutions for the growth of thin films are given in detail The properties of all the individual layers and single crystals including solar cells analyzed by different characterization techniques such as SEM AFM XPS AES TEM XRD optical photoluminescence and Raman spectroscopy are explicitly demonstrated The electrical analyses such as conductivities Hall

mobilities deep level transient spectroscopy measurements etc provide a broad picture to understand thin films or single crystals and their solar cells The book clearly explains the working principle of energy conversion from solar to electrical with basic sciences for the chalcopyrite based thin film solar cells Also it demonstrates important criteria on how to enhance efficiency of the solar cells and modules The effect of environmental factors such as temperature humidity aging etc on the devices is mentioned by citing several examples Illustrates a number of growth techniques to prepare thin film layers for solar cells Discusses characterization techniques such as XRD TEM XPS AFM SEM PL CL Optical measurements and Electrical measurements Includes I V C V measurements illustrations Provides analysis of solar cell efficiency Presents current trends in thin film solar cells research and marketing **Guías educativas** Donald M Mattox,Federico

Sequeda,2019-03-26 Este texto recoge y discute la informaci n muchas veces dispersa sobre una serie de cuestiones relativas al desarrollo de recubrimientos capas delgadas como son los fundamentos f sicos de las t cnicas de preparaci n sus ventajas e inconvenientes para la preparaci n de un material determinado en forma de recubrimiento capa delgada la influencia de los par metros del proceso de deposici n en los mecanismos de crecimiento y par metros m s cr ticos a controlar la influencia de los mecanismos de crecimiento en las propiedades microsc picas de las capas delgadas composici n morfolog a estructura etc el efecto del sustrato en las propiedades de crecimiento y las aplicaciones m s importantes de los recubrimientos capas delgadas Los cap tulos subdivididos en gu as se desarrollan en torno a cuatro tem ticas Inicialmente se describen los aspectos m s generales relacionados con las t cnicas de vac o utilizadas en la deposici n de capas delgadas y los fundamentos de las descargas el ctricas en gases introduciendo el concepto de plasma recurrente tanto en las t cnicas de deposici n como en la caracterizaci n de las capas Asimismo se tratan los mecanismos de formaci n de pel culas continuas Seguidamente se aborda el estudio de las diversas t cnicas de deposici n iniciando con las t cnicas de vapor f sicas y qu micas y los par metros que determinan el crecimiento La tercera tem tica tiene que ver con las t cnicas de caracterizaci n m s comunes utilizadas en el estudio de las propiedades de las capas delgadas las cuales se utilizan tambi n en el estudio de los materiales masivos que plantea a su vez otros problemas no tratados aqu Especial atenci n merecen las t cnicas f sico qu micas de caracterizaci n estructural ya que constituyen herramientas b sicas para la investigaci n de los materiales en capas delgadas Finalmente se resume un amplio abanico de aplicaciones de los recubrimientos capas delgadas en diferentes sectores de la tecnolog a mec nico qu mico el ctrico y electr nico magn tico y ptico En los ltimos a os este abanico se ha ido extendiendo de tal manera que puede decirse que no hay campo de actividad donde los recubrimientos capas delgadas no jueguen cierto papel Abordar todas estas aplicaciones resulta casi imposible en un tratado de esta naturaleza por lo que solo se han incluido aquellas de mayor relevancia Con relaci n a aplicaciones en alta tecnolog a en varias gu as se detallan los materiales capas delgadas y procesos en la manufactura del disco duro Hard Disk Drive HDD *The Sol-Gel Handbook, 3 Volume Set* David Levy,Marcos Zayat,2015-11-02 This comprehensive three volume handbook brings together a review of the current state together with the

latest developments in sol gel technology to put forward new ideas The first volume dedicated to synthesis and shaping gives an in depth overview of the wet chemical processes that constitute the core of the sol gel method and presents the various pathways for the successful synthesis of inorganic and hybrid organic inorganic materials bio and bio inspired materials powders particles and fibers as well as sol gel derived thin films coatings and surfaces The second volume deals with the mechanical optical electrical and magnetic properties of sol gel derived materials and the methods for their characterization such as diffraction methods and nuclear magnetic resonance infrared and Raman spectroscopies The third volume concentrates on the various applications in the fields of membrane science catalysis energy research biomaterials science biomedicine photonics and electronics

Handbook of Gas Sensor Materials Ghenadii Korotcenkov, 2013-09-18 The two volumes of Handbook of Gas Sensor Materials provide a detailed and comprehensive account of materials for gas sensors including the properties and relative advantages of various materials Since these sensors can be applied for the automation of myriad industrial processes as well as for everyday monitoring of such activities as public safety engine performance medical therapeutics and in many other situations this handbook is of great value Gas sensor designers will find a treasure trove of material in these two books

Advances in Optical Thin Films, 2004 Functional Nanostructures and Metamaterials for Superconducting Spintronics Anatolie Sidorenko, 2018-06-20 This book demonstrates how the new phenomena in the nanometer scale serve as the basis for the invention and development of novel nanoelectronic devices and how they are used for engineering nanostructures and metamaterials with unusual properties It discusses topics such as superconducting spin valve effect and thermal spin transport which are important for developing spintronics fabrication of nanostructures from antagonistic materials like ferromagnets and superconductors which lead to a novel non conventional FFLO superconducting state calculations of functional nanostructures with an exotic triplet superconductivity which are the basis for novel nanoelectronic devices such as superconducting spin valve thin film superconducting quantum interference devices SQUIDS and memory elements MRAM Starting with theoretical chapters about triplet superconductivity the book then introduces new ideas and approaches in the fundamentals of superconducting electronics It presents various quantum devices based on the new theoretical approaches demonstrating the enormous potential of the electronics of 21st century spintronics The book is useful for a broad audience including researchers engineers PhD graduates students and others wanting to gain insights into the frontiers of nanoscience

Scientific and Technical Aerospace Reports, 1994

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

New Approaches to Image Processing based Failure Analysis of Nano-Scale ULSI Devices Zeev Zalevsky, Pavel Livshits, Eran Gur, 2013-11-13 New Approaches to Image Processing Based Failure Analysis of Nano Scale ULSI Devices introduces the reader to transmission and scanning microscope image processing for metal and non metallic microstructures Engineers and scientists face the pressing problem in ULSI development and quality assurance microscopy methods can't keep pace with the continuous shrinking of feature size in microelectronics Nanometer scale sizes are below the resolution of light and imaging these features is nearly impossible even with electron microscopes due to image noise This book presents novel smart image processing methods applications and case studies concerning quality improvement of microscope images of microelectronic chips and process optimization It explains an approach for high resolution imaging of advanced metallization for micro and nanoelectronics This approach obviates the time consuming preparation and selection of microscope measurement and sample conditions enabling not only better electron microscopic resolution but also more efficient testing and quality control This in turn leads to productivity gains in design and development of nano scale ULSI chips The authors also present several approaches for super resolving low resolution images to improve failure analysis of microelectronic chips Acquaints users with new software based approaches to enhance high resolution microscope imaging of microchip structures Demonstrates how these methods lead to productivity gains in the development of ULSI chips Presents several techniques for the superresolution of images enabling engineers and scientists to improve their results in failure analysis of microelectronic chips **Electrical & Electronics Abstracts** ,1997 **Handbook of Optoelectronic Device Modeling and Simulation** Joachim Piprek, 2017-10-10 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field **International Aerospace Abstracts** ,1999 **Porous Silicon: From Formation to Application: Formation and Properties, Volume One** Ghenadii Korotcenkov, 2016-04-21 Porous silicon is rapidly attracting increasing interest in various fields including optoelectronics microelectronics photonics medicine chemistry biosensing and energy Porous Silicon Formation and Properties fills a gap in the literature of the field today providing a thorough introduction to current knowledge of the formation process **Thin Films and Nanostructures** ,2002 **Photonic Crystal Materials and Nanostructures** Richard M. De La Rue, 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 **Springer Handbook of Lasers and Optics** Frank Träger,2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references Science John Michels (Journalist),2004 A weekly record of scientific progress *Machine Learning Methods in Systems* Radek Silhavy,Petr Silhavy,2024-10-23 This book requires an in depth exploration of machine learning and its integration into system engineering This book presents contemporary research methodologies with a strong focus on the innovative application of machine learning techniques in developing and optimizing systems It includes the meticulously reviewed proceedings from the Machine Learning Methods in Systems session of the 13th Computer Science Online Conference 2024 CSOC 2024 held virtually in April 2024

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