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Low-Energy Ion Irradiation of Solid Surfaces



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Lowenergy Ion Irradiation Of Solid Surfaces

Hubert Gnaser



Lowenergy Ion Irradiation Of Solid Surfaces:

Low-Energy Ion Irradiation of Solid Surfaces Hubert Gnaser, 2014-01-15 Low-Energy Ion Irradiation of Materials Bernd Rauschenbach, 2022-08-19 This book provides a comprehensive introduction to all aspects of low energy ion solid interaction from basic principles to advanced applications in materials science It features a balanced and insightful approach to the fundamentals of the low energy ion solid surface interaction focusing on relevant topics such as interaction potentials kinetics of binary collisions ion range radiation damages and sputtering Additionally the book incorporates key updates reflecting the latest relevant results of modern research on topics such as topography evolution and thin film deposition under ion bombardment ion beam figuring and smoothing generation of nanostructures and ion beam controlled glancing angle deposition Filling a gap of almost 20 years of relevant research activity this book offers a wealth of information and up to date results for graduate students academic researchers and industrial scientists working in these areas *Low-Energy Ion Irradiation of Solid Surfaces* Hubert Gnaser, 1999 The book presents an overview on important aspects of ion irradiation of surfaces emphasizing low impact energies Specifically ion penetration and implantation into solids defect creation and amorphization of semiconductors sputtering of elemental and multicomponent targets and ionization processes of emitted species are discussed It provides a synoptic view of these phenomena which are strongly interrelated by the same basic processes but are often described separately and in diverging terminology The book tries to bridge this gap summarizing results from experiments computer simulations and theoretical approaches **Secondary Ion Mass Spectroscopy of Solid Surfaces** Valentin Tikhonovich Cherepin, 1987-12 This volume is devoted to the physics instrumentation and analytical methods of secondary ion mass spectroscopy SIMS in relation to solid surfaces It describes modern models of secondary ion formation and the factors influencing sensitivity of measurements and the range of applications All the main parts of SIMS instruments are discussed in detail Emphasising practical applications the book also considers the methods and analytical procedures for constitutional analysis of solids including metals semiconductors organic and biological samples Methods of depth profiling spatially multidimensional analysis and study of processes at the surface such as adsorption catalysis and oxidation are given along with the application of SIMS in combination with other methods of surface analysis **Tungsten Coatings for Fusion Applications , Smart Materials for Science and Engineering** Upendra Kumar, Piyush Kumar Sonkar, 2024-06-05 SMART MATERIALS FOR SCIENCE AND ENGINEERING Smart materials also known as advanced or creative materials are described as advanced materials that react intuitively to environmental changes or as materials that can return to their original shape in response to certain stimuli Smart materials are classified as either active or passive based on their characteristics There are two types of active materials The first kind cannot change its characteristics when subjected to outside stimuli for example photochromatic spectacles that only alter their color when exposed to sunlight The other which includes piezoelectric materials can change one sort of energy thermal electrical chemical mechanical or optical

into another When subjected to external pressure it can generate an electric charge As an example optical fibers can transmit electromagnetic waves In contrast passive smart materials can transmit a specific sort of energy They have some amazing qualities that set them apart from other materials such as transiency meaning they can react to different kinds of external stimuli immediately self actuation or the capacity to change their appearance and shape selectivity where the response is divided and expected directness when the response is limited to the activating event shape changing where the material can change its shape to external stimuli their ability to determine their own health also known as self diagnosis and their ability to self heal The ability to synthesize novel materials has substantially progressed thanks to science and technology over the past 20 years They fall mostly into the following four categories polymers ceramics metals and smart materials Among these smart materials are gaining popularity since they have more uses than conventional materials Smart materials are unusual substances that have the ability to alter their properties such as those that can immediately change their phase when placed near a magnet or their shape simply by applying heat Humanity will be significantly impacted by this new era of smart materials For instance some of them can adapt their properties to the environment some have sensory capabilities some can repair themselves automatically and some can degrade themselves These extraordinary properties of smart materials will have an effect on all facets of civilization There are many different types of intelligent materials including magnetorheological materials electro rheostat materials shape memory alloys piezoelectric materials and more This book describes many forms of smart materials and their possible uses in various fields A literature survey discusses the different types of smart materials such as based ceramics polymers and organic compounds and their needs advantages disadvantages and applications will be comprehensively discussed A discussion of well established smart materials including piezoelectric magnetostrictive shape memory alloy electro rheological fluid and magnetorheological fluid materials will be discussed with their present prospects

Sputtering by Particle Bombardment Rainer Behrisch, Wolfgang Eckstein, 2007-07-26 Earlier books on this subject i e Sputtering by Particle Bombardment I III are nearly 20 years old but since then a lot of new and important work has been performed and published in international journals The planned book brings an overview about all the new results This concerns especially a new summary of the measured and calculated sputtering yields with an algebraic approximation formula for the energy and angular dependence of the yields This is especially useful for all colleagues who need sputtering yields for physics and or applied problems The computational methods for calculating sputtering yields are critically reviewed Molecular dynamics calculations have not been covered in the previous books on sputtering The influence of chemical effects on sputtering and the new models developed in the last years for understanding these effects such as for hydrogen ion bombardment of carbon are outlined New developments such as sputtering by MeV Ions and the mechanisms for understanding the effects are presented The new results about the angular and energy distributions of sputtered atoms are presented in an extra chapter

Advances in Semiconductor

Nanostructures Alexander V. Latyshev, Anatoliy V. Dvurechenskii, Alexander L. Aseev, 2016-11-10 Advances in Semiconductor Nanostructures Growth Characterization Properties and Applications focuses on the physical aspects of semiconductor nanostructures including growth and processing of semiconductor nanostructures by molecular beam epitaxy ion beam implantation synthesis pulsed laser action on all types of III V IV and II VI semiconductors nanofabrication by bottom up and top down approaches real time observations using in situ UHV REM and high resolution TEM of atomic structure of quantum well nanowires quantum dots and heterostructures and their electrical optical magnetic and spin phenomena The very comprehensive nature of the book makes it an indispensable source of information for researchers scientists and post graduate students in the field of semiconductor physics condensed matter physics and physics of nanostructures helping them in their daily research Presents a comprehensive reference on the novel physical phenomena and properties of semiconductor nanostructures Covers recent developments in the field from all over the world Provides an International approach as chapters are based on results obtained in collaboration with research groups from Russia Germany France England Japan Holland USA Belgium China Israel Brazil and former Soviet Union countries *Electron-Beam Interactions with Solids* Maurizio Dapor, 2003-04-23 The interaction of electron beams with solid targets has been studied since the early part of the last century Present interest is spurred on by the fundamental role played by the electron solid interaction in among other areas scanning electron microscopy electron probe microanalysis and Auger electron spectroscopy This book aims to investigate selected aspects of the interaction of electrons with matter backscattering coefficient for bulk targets absorption backscattering and transmission for supported and unsupported thin films implantation profiles secondary electron emission and so on to study the probabilistic laws of interaction of the individual electrons with the atoms elastic and inelastic cross sections to introduce the Monte Carlo method and its use for computing the macroscopic characteristics of the interaction processes Each chapter compares theory simulations and experimental data Compton Scattering Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI The experiments cover a photon energy range from 30 MeV to 500 MeV The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results **ToF-SIMS** J. C. Vickerman, David Briggs, 2013 Time of flight secondary ion mass spectrometry ToF SIMS is the most versatile of the surface analysis techniques that have been developed during the last 30 years This is the Second Edition of the first book ToF SIMS Surface analysis by Mass Spectrometry to be dedicated to the subject and the treatment is comprehensive *Growth Processes and Surface Phase Equilibria in Molecular Beam Epitaxy* Nikolai N. Ledentsov, 1999-07-02 The book considers the main growth related phenomena occurring during epitaxial growth such as thermal etching doping segregation of the main elements and impurities coexistence of several phases at the crystal surface and segregation enhanced diffusion It is complete with tables graphs and figures which

allow fast determination of suitable growth parameters for practical applications

Nanoscale Matter and Principles for Sensing and Labeling Applications Dambarudhar Mohanta, Purushottam Chakraborty, 2024-03-13 This book is a compilation of carefully chosen chapters that cover the subjects of nanoscale matter sensing and labelling applications. It is aimed primarily at scientists and researchers who are already involved in theme based research or who are just starting their careers. Despite the diverse nature of the topics covered which include a range of materials in various forms and uses, the emphasis is primarily on sensing and labelling phenomena. The book begins with materials quantification in nanoscale systems by using an innovative technique like molecular secondary ion mass spectrometry without calibration standards. Subsequently, the book features an array of materials such as inorganic semiconductor nanoscale particles, carbon dots, rare earth oxides, polymer nanocomposites, and a few biomaterials, all of which illustrate their functionality and potential for deployment in a wide variety of sensing applications. Although the book delves into the technical aspects of fabrication, workouts to some extent, the focus is predominantly on the physical principles, mechanisms, and relevance involved in sensing and labelling applications. The book covers a wide range of topics that leverage the unique properties of nanoscale materials. By carefully selecting appropriate active materials, the authors explore the detection of LPG, hazardous and explosive gases, as well as humidity sensing and hydrogen evolution. It also delves into photo sensing and persistent photoconductivity by using nanoscale semiconductors which are used for heavy metal sensing and UV sensing respectively. The use of metal nanoparticles in various forms is reviewed to address issues related to water contamination, biofilm protection, and food borne pathogens. The book also discusses surface plasmon resonance, starting with its basic principles and expanding to its relevance in a broader perspective with a greater focus on applied biosensing. Nanoscale ferrites and magnetic systems are explored with an emphasis on magnetic sensing and actuation. Lastly, the book explores the use of rare earth based nanosystems, highlighting persistent luminescence and up down converted transitions which have unprecedented applications in bioimaging and biolabeling. Every effort has been made to strike a balance between the observed phenomena in the emerging areas of sensing applications and suitable theoretical treatments there in.

Emerging Synthesis Techniques for Luminescent Materials Tiwari, Ratnesh, Dubey, Vikas, Dhoble, Sanjay J., 2018-05-19 The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase their applications across different industries. Emerging Synthesis Techniques for Luminescent Materials is a critical scholarly resource that explores the important field of emerging synthesis techniques of luminescent materials and its practical applications. Featuring coverage on a broad range of topics such as electroluminescence, glow curve analysis, and upconversion, this book is geared towards engineers, academics, researchers, students, professionals, and practitioners seeking current research on photoluminescence and the study of rare earth doped phosphors.

Handbook of Materials Science, Volume 1 Raghuramani S. Ningthoujam, A. K. Tyagi, 2023-11-21 This

book presents the state of the art coverage of optical materials and their application in various areas The contents range from basic principles to quantum cutting luminescent materials advances in plasmonic and photonic substrate coupled fluorescence lanthanide doped materials for optical applications thermoluminescence and optical material for sensing radioactive elements It also discusses synthesis characterization and properties of optical materials including nanomaterials luminescent nanomaterials for anti counterfeiting carbon materials based nanoscale optics and plasmonics optoelectronics applications of two dimensional materials and applications of lanthanide ion doped phosphors This book is of immense value to those in academia and industry working in the areas of material science especially optical materials Nuclear Science Abstracts ,1976 **Diamond and Diamond-like Films and Coatings** Robert E. Clausing,Linda L. Horton,John C. Angus,Peter Koidl,2012-12-06

Diamond films grown by activated chemical vapor deposition have superlative thermal mechanical optical and electronic properties combined with a very high degree of chemical inertness to most environments These properties together with the ability to fabricate films and shapes of considerable size promise an exciting new material with many applications Some applications are on the verge of commercialization but many await a few more technological developments Diamond like films are already employed in both commercial and military applications The popular press as well as the scientific and technological and industrial communities are increasingly interested in the potential for future development of these materials Although there are many technical papers and review articles published there is no Single comprehensive introduction to these technologies The Scientific Affairs Division of NATO recognized the need and the future importance of these technologies and authorized an Advanced Study Institute on diamond and diamond like films NATO Advanced Study Institutes are high level teaching activities at which a carefully defined subject is presented in a systematic and coherently structured program The subject is treated in considerable depth by lecturers eminent in their fields and of international standing The presentations are made to students who are scientists in the field or who possess an advanced general scientific background *Bibliography of Mass Spectroscopy Literature for 1970* ,1972 **Encyclopedic**

Dictionary of Condensed Matter Physics Charles P. Poole Jr.,2004-03-11 This volume is a translation and revision of the Original Russian version by Baryahktar It covers all of the main fields involved in Condensed Matter Physics such as crystallography electrical properties fluids magnetism material properties optics radiation semiconductors and superconductivity as well as highlights of important related subjects such as quantum mechanics spectroscopy and statistical mechanics Both theoretical and experimental aspects of condensed matter are covered in detail The entries range from very short paragraphs on topics where definitions are needed such as Bloch s law clathrate compound donor domain Kondo lattice mean free path and Wigner crystal to long discussions of more general or more comprehensive topics such as antiferromagnetism crystal lattice dynamics dislocations Fermi surface Josephson effect luminescence magnetic films phase transitions and semiconductors The main theoretical approaches to Condensed Matter Physics are explained There are

several long tables on for example Bravais lattices characteristics of magnetic materials units of physical quantities symmetry groups The properties of the main elements of the periodic table are given Numerous entries not covered by standard Solid State Physics texts o Self similarity o The adiabatic approximation o Bistability Emphasis on materials not discussed in standard texts o Activated carbon o Austenite o Bainite o Calamitics o Carbine o Delat phase o Discotics o Gunier Preston zones o Heterodesmic structures o Heusler Alloys o Stress and strain deviators o Vicalloy Each entry is fully cross referenced to help tracking down all aspects of a topic under investigation Highly illustrated to clarify many concepts

Ion Beam Modification of Solids Werner Wesch, Elke Wendler, 2016-07-14 This book presents the method of ion beam modification of solids in realization theory and applications in a comprehensive way It provides a review of the physical basics of ion solid interaction and on ion beam induced structural modifications of solids Ion beams are widely used to modify the physical properties of materials A complete theory of ion stopping in matter and the calculation of the energy loss due to nuclear and electronic interactions are presented including the effect of ion channeling To explain structural modifications due to high electronic excitations different concepts are presented with special emphasis on the thermal spike model Furthermore general concepts of damage evolution as a function of ion mass ion fluence ion flux and temperature are described in detail and their limits and applicability are discussed The effect of nuclear and electronic energy loss on structural modifications of solids such as damage formation phase transitions and amorphization is reviewed for insulators and semiconductors Finally some selected applications of ion beams are given

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