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Low-Energy Ion Irradiation of Solid Surfaces



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Cherepin

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Low-Energy Ion Irradiation of Solid Surfaces Hubert Gnaser, 2014-01-15 **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 **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-Dimensional Materials, Systems, and Applications, Volume 2 Purushottam Chakraborty, Dambarudhar Mohanta, 2025-10-10 Low Dimensional Materials Systems and Applications Volume 2 Principles Methods and Approaches in Biomedicine and Bioengineering showcases the complexities and uniqueness of low dimensional materials and highlights the most recent discoveries in the fields of biomedicine and bioengineering Low dimensional nanoscale materials are challenging as they exhibit properties distinctly different from their bulk counterparts There is an exponential increase of reactivity at the molecular level due to high surface to volume ratios in these materials and not only are their electronic optical and chemical properties different so too are their mechanical characteristics This book highlights the state of the art theoretical and experimental descriptions of the complexities unique properties and latest applications of low dimensional materials with a particular focus on the fields of biomedicine and bioengineering The book is primarily for researchers working on the simulation fabrication analysis and uses of low dimensional nanoscale materials including biotechnologists materials scientists and chemists Serves as a comprehensive ready reference for beginners researchers and expert practitioners working on the understanding and manipulation of low dimensional structures in biomedicine and bioengineering Presents the latest theoretical and experimental approaches and complexities of low dimensional materials research Features contributions from leading experts in the field of low dimensional materials

Solid Surfaces Cherepin, 2020-04-28 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 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 **ToF-SIMS** J. C. Vickerman, David Briggs, 2013 Time of flight secondary ion mass spectrometry ToF SIMS is the most data 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 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 Compton Scattering Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on their present prospects 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

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