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Fundamentals of Ion-Irradiated Polymers

Fundamentals Of Ion Irradiation Of Polymers

**Norbert G. H. Meyendorf, Peter B.
Nagy, Stanislav I. Rokhlin**



Fundamentals Of Ion Irradiation Of Polymers:

Fundamentals of Ion-Irradiated Polymers Dietmar Fink, 2004-10-20 Presented in two parts this first comprehensive overview addresses all aspects of energetic ion irradiation of polymers Earlier publications and review articles concentrated on selected topics only And the need for such a work has grown with the dramatic increase of research and applications such as in photoresists waveguides and medical dosimetry during the last decade The first part *Fundamentals of Ion Irradiated Polymers* covers the physical chemical and instrumental fundamentals treats the specific irradiation mechanisms of low and high energy ions including similarities and differences and details the potential for future technological application All the new findings are carefully analyzed and presented in a systematic way while open questions are identified The second volume *Transport Processes in Ion Irradiated Polymers* deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes

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and high energy regimes **Transport Processes in Ion-Irradiated Polymers** Dietmar Fink, 2004-10-20 The second volume *Transport Processes in Ion Irradiated Polymers* deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes **Ion Beams in Materials Processing and Analysis** Bernd Schmidt, Klaus Wetzig, 2012-12-13 A comprehensive review of ion beam application in modern materials research is provided including the basics of ion beam physics and technology The physics of ion solid interactions for ion implantation ion beam synthesis sputtering and nano patterning is treated in detail Its applications in materials research development and analysis developments of special techniques and interaction mechanisms of ion beams with solid state matter result in the optimization of new material properties which are discussed thoroughly Solid state properties optimization for functional materials such as doped semiconductors and metal layers for nano electronics metal alloys and nano patterned surfaces is demonstrated The ion beam is an important tool for both materials processing and analysis Researchers engaged in solid state physics and materials research engineers and technologists in the field of modern functional materials will welcome this text **Radioactive Ion Implantation of Thermoplastic Elastomers** Veronica Borcea, 2008 The radioactive ion implantation wear measuring method RII has been used for many years as a tool to make highly sensitive real time in situ measurements of wear and corrosion in metallic or ceramic materials The method consists of the controlled implantation of radioactive ions of limited decay time in a thin layer at the surface of the material The progressive abrasion of the material results in a decline in radioactivity which is followed to monitor material losses The application of RII to control the wear of polymers is potentially of interest but it has been lagging behind because of uncertainties related to possible changes in material properties during and after the implantation and to the exact shape of implantation profiles In this thesis we investigate these issues on two thermoplastic elastomers among which one contains radiation sensitive unsaturated bonds using as ions ^7Be ^7Li and Kr The results of the sample characterisation indicate that the ^7Be and ^7Li implantations under properly selected conditions do not induce significant modifications in the materials The implantation of a stack of polymer thin films and the activity measurements performed to determine the implantation profile are also presented The experimental results on the ion implantation profiles and the determination of calibration curves are presented and discussed in comparison with simulated results The results indicate that it is possible to predict the implantation profile by means of simulations This bodes well for the application of the RII method to polymer materials An experimental study is presented regarding the possible redistribution of the implanted ^7Be after implantation Since very few existing experimental techniques are able to detect light elements implanted in polymer targets at fluences less or equal to 10^{12} cm^{-2} with implantation depths of a few nm a new method is presented which implies the use of plasma etching techniques in order to remove layers of polymers and measuring the remaining activity after each step Our results indicate that a redistribution of the implanted ions

takes place during the implantation process resulting in a scrambling of the initial implantation profile Nevertheless provided a suitable methodology be used wear measurements in polymers by using the RII method are still possible as we propose in the thesis

Morphology Control of Materials and Nanoparticles Yoshio Waseda, Atsushi Muramatsu, 2013-03-09 This is the first major compilation of new advances covering the current status and topics related to the processing and production of precisely controlled materials It provides a unique source of information and guidance for specialists and non specialists alike This book represents an extended introductory treatise on the fundamental aspects new methods for the precise control of morphology size shape composition structure etc and accurate materials characterization from both the basic science and the applied engineering viewpoints

Nondestructive Materials Characterization Norbert G. H. Meyendorf, Peter B. Nagy, Stanislav I. Rokhlin, 2013-11-21 Nondestructive Evaluation NDE becomes a key discipline for modern technology Information about materials defects and properties is significant to guarantee reliability of a product and avoid fatal accidents For instance technologies with high safety requirements like aviation automotive and energy production are driving forces for NDE Keeping in mind that aging of the infrastructure is an issue in all industrial countries and that for example an aircraft can have a lifetime of several decades poses new challenges for NDE and especially nondestructive materials characterization Besides the traditional in field applications NDE becomes more and more a tool to study materials degradation processes and to provide engineers with input data for sophisticated models describing materials behavior and the life of components At present this marriage of NDE and materials modeling shows significant success in predicting damage progression corrosion fatigue and thus an enhancement of availability and reliability of components and complete aircraft This book will give a snapshot of the present research in materials characterization of aging aircraft Methods considered are x ray ultrasonic optical and thermal techniques and in particular techniques with high spatial resolution to detect and quantify early stages of degradation or to characterize materials microstructure Every chapter briefly describes the basics and the principles of one NDE method under consideration Discussing recent research results by applying these methods completes the chapters The readers will get an overview of the present state of the art of materials characterization techniques

Diffraction Analysis of the Microstructure of Materials Eric J. Mittemeijer, Paolo Scardi, 2013-11-21 Diffraction Analysis of the Microstructure of Materials provides an overview of diffraction methods applied to the analysis of the microstructure of materials Since crystallite size and the presence of lattice defects have a decisive influence on the properties of many engineering materials information about this microstructure is of vital importance in developing and assessing materials for practical applications The most powerful and usually non destructive evaluation techniques available are X ray and neutron diffraction The book details among other things diffraction line broadening methods for determining crystallite size and atomic scale strain due e g to dislocations and methods for the analysis of residual macroscale stress The book assumes only a basic knowledge of solid state physics and supplies readers sufficient information to apply the methods

themselves **Fatigue in Ferroelectric Ceramics and Related Issues** Doru Constantin Lupascu, 2013-11-11 A major barrier to the introduction of ferroelectric devices into mass markets remains their limited reliability due to fatigue The underlying physical and chemical mechanisms of this material fatigue phenomenon are extremely complex and the relevant influences range from single point defects to macroscopic boundary conditions This book summarizes the different aspects of fatigue in ferroelectrics It is primarily concerned with bulk material effects Mechanical electrical and physico chemical processes are described reference data are given for different loading regimes and boundary conditions and various fatigue models are compared The monograph also demonstrates how the results of acoustic emission and of microscopy studies reveal the microscopic origins of fatigue in ferroelectric devices **Epitaxy** Marian A. Herman, W. Richter, Helmut Sitter, 2013-03-09 Epitaxy provides readers with a comprehensive treatment of the modern models and modifications of epitaxy together with the relevant experimental and technological framework This advanced textbook describes all important aspects of the epitaxial growth processes of solid films on crystalline substrates including a section on heteroepitaxy It covers and discusses in details the most important epitaxial growth techniques which are currently widely used in basic research as well as in manufacturing processes of devices namely solid phase epitaxy liquid phase epitaxy vapor phase epitaxy including metal organic vapor phase epitaxy and molecular beam epitaxy Epitaxy's coverage of science and technology thin film is intended to fill the need for a comprehensive reference and text examining the variety of problems related to the physical foundations and technical implementation of epitaxial crystallization *Dissipative Phenomena in Condensed Matter* Sushanta Dattagupta, Sanjay Puri, 2013-03-09 From the field of nonequilibrium statistical physics this graduate and research level volume treats the modeling and characterization of dissipative phenomena A variety of examples from diverse disciplines like condensed matter physics materials science metallurgy chemical physics etc are discussed Dattagupta employs the broad framework of stochastic processes and master equation techniques to obtain models for a wide range of experimentally relevant phenomena such as classical and quantum Brownian motion spin dynamics kinetics of phase ordering relaxation in glasses dissipative tunneling It provides a pedagogical exposition of current research material and will be useful to experimentalists computational physicists and theorists *Chemical-Mechanical Planarization of Semiconductor Materials* M.R. Oliver, 2013-03-14 Chemical Mechanical Planarization CMP has emerged in the last two decades and grown rapidly as a basic technology widely used in semiconductor device fabrication As a semiconductor processing step it was developed at IBM in the mid 1980s From this beginning the technology has been widely adopted throughout the semiconductor industry As basic CMP technology has been understood and accepted throughout the semiconductor industry its uses in different parts of the semiconductor process have multiplied This includes special steps for some special processing flows such as for DRAM technology In addition the availability of CMP technology has enabled the implementation of new technologies with the best example being copper interconnect technology Copper could not be

practically implemented into semiconductor process flows until the advent of CMP. Unfortunately, the rapid acceptance and implementation of CMP technology in wafer fabrication has occurred without a corresponding rate of advance in the underlying science. Progress is being made in understanding the underlying CMP mechanisms but in general it is slow and uneven. The most noteworthy exception to this trend is the science of metal CMP reactions where the scientific understanding is actually driving much of the advance of the technology. There has been no corresponding progress in other CMP areas however.

Radiation Effects in Polymeric Materials Vijay Kumar, Babulal Chaudhary, Vishal Sharma, Kartikey Verma, 2019-02-09. This book provides an introduction of how radiation is processed in polymeric materials, how material properties are affected and how the resulting materials are analyzed. It covers synthesis, characterization, or modification of important materials, e.g., polycarbonates, polyamides, and polysaccharides, using radiation. For example, a complete chapter is dedicated to the characterization of biodegradable polymers irradiated with low and heavy ions. This book will be beneficial to all polymer scientists in the development of new macromolecules and to all engineers using these materials in applications. It summarizes the fundamental knowledge and latest innovations in research fields from medicine to space.

Radiation Technologies and Applications in Materials Science Subhendu Ray Chowdhury, 2022-12-30. This book explains various kinds of non-ionizing and high-energy radiations, their interaction with materials, and chemical reactions and conditions of various kinds of materials development technologies including applications. It covers a processing-structure-property relationship and radiations used in developing many advanced materials used in various fields. It highlights application-oriented materials synthesis and modification covering a wide variety of materials such as plastics, rubber, thermoset, ceramics, and so forth by various radiations. Features: Explains ionizing and non-ionizing radiation-assisted materials development technologies for polymers, ceramics, metals, and carbons. Covers radiation-assisted synthesis, processing, and modification of all kinds of materials. Provides comparative studies, merits, demerits, and applications very systematically. Crosses polymer science and technology, radiation technology, advanced materials technology, biomaterials technology, and so forth. Includes a section on 3D printing by LASER melting of CoCr alloys. This book is aimed at researchers and graduate students in materials science, radiation chemistry and physics, and polymer and other materials processing.

Ion Tracks in Apatite and Quartz Daniel Schauries, 2018-08-01. This book pioneers a novel approach to investigate the effects of pressure on fission tracks, a geological problem that has remained unsolved for 60 years. While conventional techniques to study fission tracks were limited in precision, this book overcomes such issues by using state-of-the-art synchrotron-based x-ray scattering, a technique initially developed for applications in material science and biomedical research. The book provides an overview of the theory and application of small-angle x-ray scattering (SAXS) on cylindrical ion tracks, including in situ SAXS on ion tracks with simultaneous increases in temperature and pressure. As such, it demonstrates a degree of characterisation normally not achievable with in situ techniques. Further, it compares SAXS with small-angle neutron scattering (SANS). This book has led to a

range of publications and attracted the interest of the geological and material science communities Daniel Schauries has been awarded several prizes for this research including the Graduate Student Award of the Materials Research Society

Polysaccharide Based Graft Copolymers Susheel Kalia,M.W. Sabaa,2013-05-23 Renowned experts give all essential aspects of the techniques and applications of graft copolymers based on polysaccharides Polysaccharides are the most abundant natural organic materials and polysaccharide based graft copolymers are of great importance and widely used in various fields Natural polysaccharides have recently received more attention due to their advantages over synthetic polymers by being non toxic biodegradable and available at low cost Modification of polysaccharides through graft copolymerization improves the properties of polysaccharides Grafting is known to improve the characteristic properties of the backbones Such properties include water repellency thermal stability flame resistance dye ability and resistance towards acid base attack and abrasion Polysaccharides and their graft copolymers find extensive applications in diversified fields Applications of modified polysaccharides include drug delivery devices controlled release of fungicides selective water absorption from oil water emulsions purification of water etc

Nanodevices and Nanomaterials for Ecological Security Yuri N. Shunin,Arnold E. Kiv,2012-06-05 This book is devoted to a wide range of problems concerning applications of nanomaterials and nanodevices as effective solutions to modern ecological problems Leading experts in nanoscience and nanotechnology present the key theoretical experimental and implementation issues related to the creation and utilization of novel nanoscale devices to help ensure ecological security The authors discuss appropriate nanotechnologies for minimizing various types of risk to human life technogenic risk or indeed terrorist threats Particular emphasis is placed on defining and studying the required materials properties and in the field on nanoscale devices for sensors and monitoring

Surface Modification of Biopolymers Vijay Kumar Thakur,Amar Singh Singha,2015-04-27 This book addresses surface modification techniques which are critical for tailoring and broadening the applications of naturally occurring biopolymers Biopolymers represent a sustainable solution to the need for new materials in the auto waste removal biomedical device building material defense and paper industries Features First comprehensive summary of biopolymer modification methods to enhance compatibility flexibility enhanced physicochemical properties thermal stability impact response and rigidity among others Address of a green eco friendly materials that is increasing in use underscoring the roles of material scientists in the future of new green bioolymer material use Coverage applications in automotive development hazardous waste removal biomedical engineering pulp and paper industries development of new building materials and defense related technologies Facilitation of technology transfer

Unveiling the Magic of Words: A Review of "**Fundamentals Of Ion Irradiation Of Polymers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Fundamentals Of Ion Irradiation Of Polymers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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