

Ion Solid Interactions Fundamentals And Applications

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Ion Solid Interactions Fundamentals And

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Ion-Solid Interactions: Fundamentals and Applications ...

ION-SOLID INTERACTIONS FUNDAMENTALS AND APPLICATIONS MICHAEL NASTASI Materials Science and Technology Division Los Alamos National Laboratory Los Alamos, NM 87545 JAMES W. MAYER Center for Solid State Science Arizona State University Tempe, AZ 85287 AND JAMES K. HIRVONEN Materials Directorate US Army Research Laboratory Watertown, MA 02172

ION-SOLID INTERACTIONS FUNDAMENTALS AND APPLICATIONS

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Fundamentals and modelling of ion-solid interactions - Part II

A discussion on ion channeling and ion damage in crystalline materials is presented. The problems of redeposition associated with an increase in sputtering yield within a confined trench are presented. Knowledge of ion - solid interactions may be used to prepare excellent quality FIB milled surfaces.

Ion - Solid Interactions | SpringerLink

First the fundamentals of Ion-Solid Interaction are outlined. A brief overview is given about the basic energy transfer mechanisms and the consequences of ion impact into solids, such as scattering, sputtering and radiation damage.

Ion-solid interaction: status and perspectives

presented in the lecture "Fundamentals of Ion-Surface Interaction". It is not meant to replace a textbook. For details, extended discussions and mathematical derivations, the reader is referred to the literature. Literature 1. N.Bohr: The Penetration of Atomic Particles Through Matter (Kgl.Dan.Vid.Selsk.Mat. Fys.Medd. 18,8(1948)) 2.

Fundamentals of Ion-Surface Interaction

Ion-solid interactions : fundamentals and applications. [Michael Anthony Nastasi; James W Mayer;] K Hirvonen) -- Modern technology depends on materials with precisely controlled properties. Ion beams are a favored method to achieve controlled modification of surface and near-surface regions.

Ion-solid interactions : fundamentals and applications ...

Ion-Solid Interactions - by Michael Nastasi March 1996. Introduction. The bombardment of a growing film with energetic particles has been observed to change for the better a number of characteristics and properties, critical to the performance of thin films and coatings, such as adhesion, densification of films grown at low substrate temperatures, modification of residual stresses, control of ...

Ion beam assisted deposition (Chapter 13) - Ion-Solid ...

Any ion beam modification of materials is the result of interactions between energetic ions and the solid by inter atomic potentials. These interactions manipulate ion ranges and range distributions in the solid, ion stopping processes and anisotropic ion distributions by channeling and collision cascades. On the other hand, these interactions are the basis for ion damage in solids by implantation, sputtering, and mixing processes.

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In addition to integrated circuit technology, ion beams can modify the mechanical, tribological, and chemical properties of metal, intermetallic, and ceramic materials without altering their bulk properties. Ion-solid interactions are the foundation that underlies the broad application of ion beams to the modification of materials.

Ion-Solid Interactions - NASA/ADS

Ion-solid interactions are the foundation that underlies the broad application of ion beams to the modification of materials. This text is designed to cover the fundamentals and applications of ion-solid interactions and is aimed at graduate students and researchers interested in el... *show more*

Ion-Solid Interactions : Michael Nastasi : 9780521616065

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Energy Transfer in Ion and Laser Solid Interactions 3 D (r)= Ne 4 Z 2 am ec2 2 T 1 r+ R + R 1/ a (w + l)2 (4) where R is the range of an electron with energy I and T is the maximum range, corresponding to the maximum possible energy transfer. Finally, the temporal component can be included