

ATOMIC COLLISIONS IN SOLIDS%0A

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The concept of treating the penetration of energetic ions through solids in the context of the physics of binary atomic collisions requires some initial consideration. Clearly atomic collision processes which occur at distances larger than interatomic spaces in solids are difficult if not impossible.

[The Observation of Atomic Collisions in Crystalline Solids ...](#)

The Observation of Atomic Collisions in Crystalline Solids presents a critical account of the more important experiments which have provided the basis for a better understanding of atomic collision phenomena in crystalline solids.

[ATOMIC COLLISIONS IN SOLIDS - Home - Springer](#)

[Library of Congress Cataloging in Publication Data International Conference on Atomic Collisions in Solids, 5th, Gatlinburg, Tenn., 1973.](#)

[Atomic collisions in solids: Astronomical applications ...](#)

Many of these experiments also serve to expand the current frontier of atomic collisions in solids by discovering previously unknown phenomena. Some of the experimental techniques used in these atomic collision - an overview | ScienceDirect Topics The nature of atomic collision cascades has been continuously studied, since these cascades important not only for fundamental science but also for their technological applications in solids. They initiate the process of radiation damage, sputtering, and ion implantation.

[Atomic Collisions and Spectra | ScienceDirect](#)

Atomic Collisions and Spectra provides an overview of the state of knowledge on atomic collision physics. The book grew out of lecture notes for a succession of courses at the University of Chicago in 1967-1979, which reported the new material as it was taking a definite form.

[Atomic Collision | Article about Atomic Collision by The ...](#)

Atomic Collision an elementary collision event between two atomic particles, which may be atoms, molecules, electrons, or ions. Such a collision is either elastic or inelastic. In an elastic collision, the total kinetic energy of the colliding particles remains the same as before the collision; the kinetic energy is merely redistributed between

[Atomic collisions in solids IV: physics of channeling](#)

and ...

Note: Citations are based on reference standards. However, formatting rules can vary widely between applications and fields of interest or study.

Atomic collisions in solids: Astronomical applications

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Airless bodies in space are subject to irradiation with energetic atomic particles, which generate atmospheres by sputtering and alter the surface composition. Astronomical observations with telescopes and space probes continuously provide new data.

Atomic Collisions - Earl W. McDaniel, J. B. A. Mitchell, M ...

Deals with elastic, inelastic and reactive collisions between heavy particles. The impact energy range extends from sub-thermal to energies at which nuclear forces become significant.

Cold Binary Atomic Collisions in a Light Field - dtic.mil

Cold Binary Atomic Collisions in a Light Field Volume 101 Number 4 July August 1996 Paul S. Julienne National Institute of Standards and Technology, Gaithersburg, MD 20899-0001 The rate coefficients are calculated for trap loss due to excited state formation during s-wave collisions of two atoms in a light field in a cold atomic gas near conditions for formation of a Bose-Einstein condensate.

Six decades of atomic collisions in solids - ScienceDirect

I. Introduction. Atomic collisions in solids, also known as particle-solid interaction, is the common term for a branch of accelerator-based physics with a wide range of applications in science and technology.

(PDF) Molecular structure effects in the energy loss of ...

... damage of materials [5-7], and other interesting processes in atomic collisions in solids. When a swift molecular ion impinges on a solid, only a few collisions are needed to strip away its

Kinetic ion-induced electron emission from the surface of ...

Kinetic Ion-Induced Electron Emission from the Surface of Random Solids B. A. Brusilovsky Institute of Nuclear Physics of the Moscow State University, SU-IP9899 Moscow, USSR Received 13 February 1989/Accepted 23 February 1989 Abstract. This is a review of the published papers devoted to kinetic ion-electron emission from the surface of polycrystalline and amorphous solids. It contains the

Atomic collisions in solids: Astronomical applications

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Statements of some unsolved problems in this area are intended to stimulate the interest of other researchers in atomic collisions in solids. We start by pointing out that the solar system is a natural laboratory for atomic collisions in solids. The harsh space environment is populated by energetic ions, electrons and photons that impact the surface of any body not protected by a relatively