

## Ion Solid Interactions Fundamentals And Applications

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Ion-solid interactions are the foundation that underlies the broad application of ion beams to the modification of materials. This text covers the fundamentals and applications of ion-solid interactions, and is aimed at graduate students and researchers interested in electronic devices, surface engineering, reactor and nuclear engineering, and materials science issues associated with ...

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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.

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The effects of the ion incident angle are also discussed, along with ion-induced sample damage, possible alloying of the sample and ion species, redeposition of sputtered material and ion channeling due to crystallographic orientations. A final section describes the software that is freely available to model ion–solid interactions.

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This term, ion beam assisted deposition, or IBAD, will be used here in favor of its growing acceptance by the energetic-particle–solid interaction research community. The important role of ions in thin-film deposition techniques has long been realized by the coating community.

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

Fundamentals of Ion-solid Interactions with a Focus on the Nanoscale 9 atoms  $\times$  cm<sup>-3</sup>, whose energy changes on average by  $dE$  in a length  $dx$ , the stopping cross-section  $\Sigma(E)$  (eV  $\times$  cm<sup>2</sup>) is defined by the following equation:  $\Sigma(E) = 1 N \int dE dx$  [1.5] Note that since energy is lost,  $dE$  is negative so that  $\Sigma$  is a positive value.

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Ion-solid interactions are the foundation that underlies the broad application of ion beams to the modification of materials. This text covers the fundamentals and applications of ion-solid interactions, and is aimed at graduate students and researchers interested in electronic devices, surface engineering, reactor and nuclear engineering, and materials science issues associated with metastable phase synthesis.

