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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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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.

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stopping cross-section $\epsilon(E)$ ($\text{eV} \times \text{cm}^2$) is defined by the following equation: $\epsilon(E) = \frac{1}{N} \frac{dE}{dx}$ [1.5] Note that since energy is lost, dE is negative so that ϵ is a positive value.

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(considered negative by convention) is equal and opposite to that of the proton (considered positive by convention), the net charge of an ion is non-zero due to its total number of electrons being unequal to its total number of protons. A cation is a positively charged ion ...

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