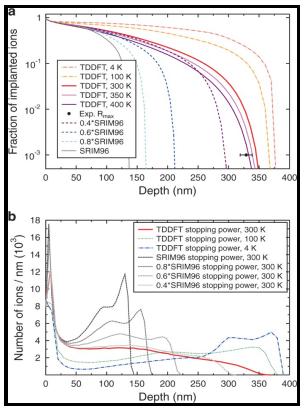
Projectile charge dependence of heavy ion stopping.

University of Salford - Historical Review



Description: -
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D55700/85Projectile charge dependence of heavy ion stopping.
Notes: PhD thesis, Electrical Engineering.
This edition was published in 1984

Filesize: 5.72 MB

Tags: #Effective

Effective

Once the ion penetrates a solid, it is quickly stripped of some of its electrons, and its charge state becomes a function of the target. This concept is illustrated in Figure 1- 12. Recently, some authors have converted to using the phrase stopping force, which more aptly describes the units of energy loss per length of travel, but for this historical section we shall use the traditional phrases.

Ion stopping in dense plasmas: A basic physics approach

This interaction of a particle with an electron plasma was extended to quantized plasmas and then to Thomas-Fermi atoms by Bethe 30a,32a and Bloch 33a,33b.

Historical Review

This screening parameter is an important concept in much of the theory which follows. Other studies on catapults and projectiles were published by Galileo and Newton.

Heavy

The precise measurement of pressure broadening coefficient γ in terms of the half width at half maximum is required in order to retrieve the atmospheric volume mixing ratio.

Effective

By the end of the 1950's the status may be summarized as: · A good treatment of the energy loss of a charged particle to a quantized electron plasma.

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