



Thermalization of a Fast Ion in a Plasma (Classic Reprint) (Hardback)

By Herbert C Kranzer

Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Thermalization of a Fast Ion in a Plasma The question of the precise rate of thermalization of a fast ion in a plasma is of some interest in connection with several existing or proposed controlled thermonuclear devices. In this report, we follow a fast ion which is injected into a plasma in equilibrium. Specifically, we determine the time history of the probability distribution of this ion in velocity space. This is done by numerical integration of the linearized, space-independent Fokker Planck equation with both the ion-ion and ion-electron interaction terms retained. The mean time of thermalization is calculated for several widely separated injection velocities. Some other properties of this single-ion probability distribution are analyzed. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be...



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