



Magneto-Hydrodynamic Shock Structure Without Collisions (Classic Reprint) (Paperback)

By Cathleen S Morawetz

Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Magneto-Hydrodynamic Shock Structure Without Collisions In this report we present a method for studying the internal structure of a magneto-hydrodynamic shock in which, in contrast to earlier theories, there are no collisions among the plasma particles. The theory yields us two distinct situations. In the first case, there is no shock. The ions and electrons pass through a region of changing magnetic and electric field and eventually they return to the state from which they started. In the second case, there is a definite change of state. Within the approximation we obtain a qualitative picture of the shock. The magnetic field rises and then oscillates with a characteristic wave length about a mean value greater than its initial value. The distribution function of the ions is greatly distorted. The approximation is based on an asymptotic development in the ion to electron mass ratio. It is valid over distances that are comparable to or even large compared to the wave length of the oscillation but small compared to the ion Larmor radius. Thus it is quite possible that an improvement...



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