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The Physics of Alfven Waves

Neil F. Cramer

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Low-frequency wave modes of magnetized inhomogeneous plasmas have been subject to intense study in the last decade because they play important roles in the transport of energy in the plasmas. The "Alfvén wave heating" scheme has been investigated as a supplementary heating scheme for fusion plasma devices, and it has been invoked as a model of the heating of the solar and stellar coronae.
This book covers the latest research into the properties and applications of low-frequency wave modes in magnetized plasmas, the Alfvén waves and magneto-acoustic waves, in the context of laboratory, space and astrophysical plasmas. In particular, non-ideal effects on the dispersion relation and absorption properties of linear and non-linear waves are included, such as ion-cyclotron effects, friction between the ionized plasma and a background gas of neutral atoms, and the interaction of the plasma with dust particles.
The book also surveys the theory of Alfvén and magnetoacoustic waves in inhomogeneous plasmas, as occur in realistic laboratory, space and astrophysical plasmas, with resulting localized wave modes such as surface waves. Waves are considered under a variety of plasma conditions, ranging from cold cosmic plasmas, to hot laboratory and solar plasmas, to the relativistic plasmas around pulsars.

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