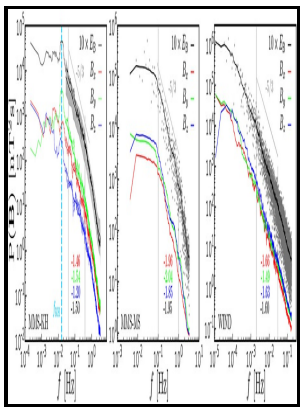
Stability of strong discontinuities in magnetohydrodynamics and electrohydrodynamics

Nova Science Publishers - Magnetohydrodynamics



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Notes: Includes bibliographical references (p. 293-303) and index.
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Local Existence of Contact Discontinuities in Relativistic Magnetohydrodynamics

Edition Notes Includes bibliographical references p. Quantitative evaluation of the required electrical resistance and an allowable crack fraction are subject to overall blanket design including flow channel structures. In general, a plasma and its dynamics are described by kinetic equations that govern distribution functions for electrons, ions, and if the plasma is incompletely ionized neutral atoms.

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The use of the switch of very effectively minimizes the effect of the artificial dissipation away from shocks. Taking account of the Gibbs relation 3. The equations appear to be accurate, robust and easy to apply and they do not suffer from the instabilities that exist in other formulations of the SPMHD equations.

Local Existence of Contact Discontinuities in Relativistic Magnetohydrodynamics

Stability results are obtained for the special cases of parallel and transversal fast shock waves by the test of fulfilment of the uniform Lopatinsky condition for corresponding linear stability problems.

Local Existence of Contact Discontinuities in Relativistic Magnetohydrodynamics

Using three-dimensionally-printed structures, an experimental exploration of a large panel of configurations regarding the aperture angle of the cone finds evidence for a change of the droplet geometry while moving along the conical fiber—from barrel to clamshell shape. Should this be confirmed, it would be an important case study of slow MHD waves in space environment. The two MHD units support general equations of state and multi-species fluids.

Local Existence of Contact Discontinuities in Relativistic Magnetohydrodynamics

Using droplet tracking velocimetry measurements performed far from the nozzle, this study shows the bimodal nature of the size and velocity

distributions of droplets generated by such jets, at a distance of between 400 and 800 nozzle diameters. The key point is that the dissipation involves jumps in appropriate variables momentum, energy and density between the left and right Riemann states multiplied by eigenvalues which can be interpreted as signal velocities. Shore, in , 2003 V.

Magnetohydrodynamics

The results compare extremely well with the exact solution solid line given by and with the numerical solution given by and , especially given the extreme nature of the problem. However, in many cases see next section , it is a good approximation to consider the field to be frozen in the bulk ion population. We study Alfvén discontinuities for the equations of ideal compressible magnetohydrodynamics MHD.

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