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In this chapter we consider a number of important examples of the nonlinear waves—simple waves, solitons, and discontinuities—with the use of exact or approximate analytical methods. ... Download chapter PDF. ... 5.1 Simple MHD Waves. Here we obtain a family of exact MHD solutions, called the simple waves, ...

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NONLINEAR MHD WAVES IN A PROMINENCE FOOT

Nonlinear Resonant MHD Waves in Solar Plasmas The University of Shefield Christopher Clack Department of Applied Mathematics Submission for the degree of Doctor of Philosophy April 15, 2010. Acknowledgements ... 4 The validity of nonlinear resonant Alfvén waves in space plasmas 59

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Nonlinear MHD waves and discontinuities in the Martian magnetosheath. Observations and 2D bi-ion MHD

simulations Konrad Sauer^{1,4}, ... NONLINEAR MHD WAVES AND DISCONTINUITIES IN THE MARTIAN MAGNETOSHEATH 795 Fig. 3. Variation of the plasma parameters (proton velocity, electron and proton density, magnetic field) in the magnetosheath measured by ...

Nonlinear MHD waves and discontinuities in the Martian

The workshop "Nonlinear MHD Waves and Turbulence" was held at the Observatoire de Nice, ... Nonlinear MHD Waves and Turbulence Proceeding of the Workshop Held in Nice, France, 14 December 1998. ... PDF. Whistler Solitons, Their Radiation and the Self-Focusing of Whistler Wave Beams. V.I. Karpman.

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FORCED RECONNECTION BY NONLINEAR MAGNETOHYDRODYNAMIC WAVES 107 section. In particular we study the effect of the toroidal magnetic field on wave-triggered fast reconnection. The study of nonlinear development of forced reconnection by simulation is carried out using a MHD particle-code (Brunel et al., 1981).

FORCED RECONNECTION BY NONLINEAR MAGNETOHYDRODYNAMIC WAVES

the nonlinear waves produced by the magneto-acoustic gravity modes in a prominence. The paper is organized as follows: in Section 2 we present the observational results of the 2010 Oct 10 prominence foot oscillations, in Section 3 we present the MHD model, the

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Weakly nonlinear surface waves rippling an MHD tangential discontinuity (TD) of finite thickness are studied. The waves are two-dimensional and evanescent in the direction normal to the inhomogeneous layer. A novel approach is utilized to treat weakly nonlinear evanescent wave fields in physical space.

Nonlinear MHD waves on an interface of finite thickness

The nonlinear coupling of MHD waves in a cold ($\beta \ll 1$) compressible plasma with a smoothly inhomogeneous low-speed steady flow directed along the magnetic field is considered.

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