

# **NONLINEAR MAGNETOHYDRODYNAMICS**

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# Nonlinear Magnetohydrodynamics

**Bob Hertzberger, Giuseppe Serazzi**



## **Nonlinear Magnetohydrodynamics:**

Nonlinear Magnetohydrodynamics D. Biskamp, Dieter Biskamp, 1997-07-17 A self contained introduction to magnetohydrodynamics with emphasis on nonlinear processes      **Nonlinear Magnetohydrodynamics of AC Helicity Injection** Fatima Ebrahimi, 2003      **Nonlinear Magnetohydrodynamics** , 1994 Resistive MHD equilibrium even for small resistivity differs greatly from ideal equilibrium as do the dynamical consequences of its instabilities The requirement imposed by Faraday s law that time independent magnetic fields imply curl free electric fields greatly restricts the electric fields allowed inside a finite resistivity plasma If there is no flow and the implications of the Ohm s law are taken into account and they need not be for ideal equilibria the electric field must equal the resistivity times the current density The vanishing of the divergence of the current density then provides a partial differential equation which together with boundary conditions uniquely determines the scalar potential the electric field and the current density for any given resistivity profile The situation parallels closely that of driven shear flows in hydrodynamics in that while dissipative steady states are somewhat more complex than ideal ones there are vastly fewer of them to consider Seen in this light the vast majority of ideal MHD equilibria are just irrelevant incapable of being set up in the first place The steady state whose stability thresholds and nonlinear behavior needs to be investigated ceases to be an arbitrary ad hoc exercise dependent upon the whim of the investigator but is determined by boundary conditions and choice of resistivity profile      **Fusion Energy Update** , 1986

**Nonlinear Magnetohydrodynamics . Final Report** , 1998 This is a final report on the research activities carried out under the above grant at Dartmouth During the period considered the grant was identified as being for nonlinear magnetohydrodynamics considered as the most tractable theoretical framework in which the plasma problems associated with magnetic confinement of fusion plasmas could be studied During the first part of the grant s lifetime the author was associated with Los Alamos National Laboratory as a consultant and the work was motivated by the reversed field pinch Later when that program was killed at Los Alamos the problems became ones that could be motivated by their relation to tokamaks Throughout the work the interest was always on questions that were as fundamental as possible compatible with those motivations The intent was always to contribute to plasma physics as a science as well as to the understanding of mission oriented confined fusion plasmas Twelve Ph D theses were supervised during this period and a comparable number of postdoctoral research associates were temporarily supported Many of these have gone on to distinguished careers though few have done so in the context of the controlled fusion program Their work was a combination of theory and numerical computation in gradually less and less idealized settings moving from rectangular periodic boundary conditions in two dimensions through periodic straight cylinders and eventually before the grant was withdrawn to toroids with a gradually more prominent role for electrical and mechanical boundary conditions The author never had access to a situation where he could initiate experiments and relate directly to the laboratory data he wanted Computers were the laboratory Most of the

work was reported in referred publications in the open literature copies of which were transmitted one by one to DOE at the time they appeared The Appendix to this report is a bibliography of published work which was carried out under the partial support of this grant from the mid 1980s onward It is this collection of papers which is considered to have been the principal product of this research support Only the broadest brush summary of the details of this work will be given here *Scientific and Technical Aerospace Reports*, 1989 Existence of Global Solutions for Nonlinear Magnetohydrodynamics with Finite Larmor Radius Corrections Fariha Elsrrawi, 2018 We discuss the existence of global solutions to the MHD equations where the effects of finite Larmor radius corrections are taken into account Unlike the usual MHD the pressure is a tensor and it depends on not only the density but also the magnetic field We show the existence of global solutions by the energy methods Our techniques of proof are based on the existence of local solution by Semigroups theory and a priori estimates

Nonlinearity, 2000 **Nonlinear Magnetohydrodynamics . Threshold Unstable MHD Activity**, 1992 Theoretical predictions were compared with available data from JET on the threshold unstable MHD activity in toroidal confinement devices In particular questions arising as to Hartmans number and the selection of a kinematic viscosity are discussed

Turbulence and Nonlinear Dynamics in MHD Flows M. Meneguzzi, A. Pouquet, P.L. Sulem, 2012-12-02 Topics discussed at this international workshop include magnetic fields in astrophysical flows slow and fast dynamos MHD turbulence in space plasmas and in the laboratory exact solutions to MHD topology and chaos in MHD helicity and velocity magnetic correlations turbulent reconnection and non magnetic flows *Nonlinear Magnetohydrodynamics by Galerkin Approximation*

*Computation* Xiaowen Shan, 1991 **Nonlinear Magnetohydrodynamics. Progress Report, July 1, 1993--June 30, 1994**, 1994 Work has continued to focus on resistive viscous magnetohydrodynamic MHD steady states that model tokamak configurations Recent emphasis has been on the subject of plasma rotation and the stabilizing effects it has on the kind of MHD activity that results when current thresholds are exceeded in non rotating configurations The author believes that relatively superficial consequences of the effects of rotation e g the open\_quotes velocity shear layer close\_quotes which must result when any fluid of whatever nature is rotated in the presence of a material boundary have been assigned causative effects that do not belong to them in the presently dominant perspective on the subject Output from the author's three dimensional spectral method numerical code has shown how rotation may be made to suppress helical deformations of the current channel and paired helical vortices in a supercritical magnetofluid column A velocity open\_quotes shear layer close\_quotes results if and when there is wall friction The role of ion parallel viscosity rather than shear viscosity in determining stability boundaries in current carrying magnetofluids is being investigated A lattice Boltzmann equation method of computing three dimensional magnetohydrodynamic toroidal effects is under consideration Physics Briefs, 1994 Nonlinear Magnetohydrodynamics. Progress Report, December 15, 1978-December 31, 1979, 1979 The problem of nonlinear incompressible magnetohydrodynamic stability is considered The absolute equilibrium states for initially quiescent

systems are determined The basic procedures used in the study are described MOW      **Government Reports**  
**Announcements & Index** ,1988      *High-performance Computing and Networking* Bob Hertzberger,Giuseppe Serazzi,1995  
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