

**MAGNETOHYDRODYNAMIC  
SHOCK WAVES**

J. EDWARD ANDERSON

# Magnetohydrodynamic Shock Waves

**Anthony Richard Collins**



## **Magnetohydrodynamic Shock Waves:**

**Magnetohydrodynamic Shock Waves** John Edward Anderson, 1963      *The Structure of Shock Waves in Magnetohydrodynamics* Mahmud Hesaaraki, 1984 In the presence of magnetic induction and electrical fields several types of discontinuities may exist in an electrically conducting fluid These phenomena can be described by the laws of conservation of mass momentum and energy Maxwell's electromagnetic equations and Ohm's law Those discontinuities which can be characterized by the conditions that both the temperature and density change across them are different from zero are called magneto hydrodynamic shock waves This monograph is concerned with the study of these types of discontinuities

**Magnetohydrodynamics: Waves and Shock Waves in Curved Space-Time** A. Lichnerowicz, 2013-04-17 For seventy years we have known that Einstein's theory is essentially a theory of propagation of waves for the gravitational field Confusion enters however through the fact that the word wave in physics implies sometimes repetition and sometimes not This confusion is often increased by the use of Fourier transforms by which a disturbance which appears to be without repetition is resolved into periodic wave trains with all frequencies But in a general curved space time we have nothing corresponding to Fourier transforms Here we consider systematically waves corresponding to the propagation of discontinuities of physical quantities describing either fields essentially electromagnetic fields and gravitational field or the motion of a fluid or together in magnetohydrodynamics the changes in time of a field and of a fluid The main equations for the different studied phenomena constitute a hyperbolic system and the study of a formal Cauchy problem is possible We call ordinary waves the case in which the derivative of superior order appearing in the system are discontinuous at the traverse of a hypersurface the wave front we call shock waves the case where the derivatives of an order inferior by one are discontinuous at the traverse of a wave front XI xii PREFACE From 1950 many well known scientists Taub Synge Choquet B. ruhat etc have studied the corresponding equations for different physical phenomena systems associated to the electromagnetic and gravitational fields to hydrodynamics and to magnetohydrodynamics      **Magnetohydrodynamic**

**Shock Waves** J. Edward Anderson, 2003-02 Studies based on the Rankine Hugoniot relations have classified MHO shock waves as fast switch on intermediate switch off and slow Any waves found in nature must also possess steady state structures and be stable in the presence of small flow disturbances In this monograph Dr Anderson examines these criteria in relation to plane shocks for which the collision frequency is large compared with cyclotron frequency It contains a three dimensional graphic representation of shock end states and presents an exact solution for the shock adiabatic curve in a convenient form An MIT Press Research Monograph      **Magnetohydrodynamic Shock Waves in a Plasma** A. L.

Velikovich, M. A. Liberman, 1987      Magnetohydrodynamic Shock Waves in a Plasma A. L. Velikovich, M. A. Liberman, 1987

**Experimental Studies of Magnetohydrodynamic Shock Waves** Anthony Richard Collins, 1977      **Some Aspects of Magnetohydrodynamic Shock Waves in a Plasma** Barry John Green, 1967      **Survey of Magnetohydrodynamic Shock**

**Waves** R. Addison, University of Manchester, 1965      **Magnetohydrodynamic Shock Relations in Nonaligned Flows** Y. M. Lynn, 1965      *Magnetohydrodynamic Shock Waves in a Plasma* A. L. Velikovich, M. A. Liberman, 1987

*Magnetohydrodynamic Shock Waves in a Plasma* A. L. Velikovich, M. A. Liberman, 1987      **Experiments on Transverse Ionizing Mhd Shock Waves** Charles Fleming Stebbins, FRANK J SEILER RESEARCH LAB UNITED STATES AIR FORCE ACADEMY COLO., 1967

The jump conditions across a transverse ionizing MHD shock wave where the magnetic field is in the plane of the shock are examined. The simple conservation laws in conjunction with Maxwell's laws and the equation of state yield three jump equations in four unknowns. The ionizing wave then requires an additional descriptive relationship for a unique solution to the jump equations to exist. Several theories which attempt to supply this missing relationship are examined including the theory of Lyubimov and Kulikovskii and later Chu where the internal structure of the shock itself supplies the missing relationship. In particular Lyubimov and Kulikovskii show for appropriate ratios of the thermal diffusivity to the magnetic diffusivity that for low speed shock waves the magnetic field compression across the shock is unity and the jump equations reduce to the ordinary Rankine Hugoniot relations. For high speed shock waves the magnetic field compression is equal to the gas compression across the wave and the jump equations become exactly the magnetohydrodynamic jump relations. Furthermore intermediate speed shocks experience a magnetic field compression between 1 and  $\rho_2/\rho_1$ . Author      [Viscous Profiles and Numerical Methods for Shock Waves](#) Michael Shearer, 1991-01-01

One strongly represented theme is the power of ideas from dynamical systems that are being adapted and developed in the context of shock waves      **On the Theory of Ionizing Magnetohydrodynamic Shock Waves** William Scott Jackson, 1966      **Magnetohydrodynamic Processes in Solar Plasmas** Abhishek Kumar Srivastava, Marcel Goossens, Iñigo Arregui, 2024-05-10

Magnetohydrodynamic Processes in The Solar Plasma provides comprehensive and up to date theory and practice of the fundamentals of heliospheric research and the Sun's basic plasma processes covering the dynamics of the solar interior to its exterior in the framework of magnetohydrodynamics. The book covers novel aspects of solar and heliospheric physics astrophysics and space science and fundamentals of the fluids and plasmas. Topics covered include key phenomena in the solar interior such as magnetism dynamo physics and helioseismology dynamics and plasma processes in its exterior including fluid processes such as waves shocks instabilities reconnection and dynamics in the partially ionized plasma and physics and science related to coronal heating solar wind and eruptive phenomena. The content has been developed to specifically cover fundamental physics related descriptions and up to date developments of the scientific research related to these significant topics. The book therefore provides the entire fundamental and front line research aspects of solar and heliospheric plasma processes mainly in the context of solar plasma however the content also has larger implications for the astrophysical plasma and laboratory plasma fluid dynamics and associated basic theories. It also includes additional supplementary content such as key instruments and experimental techniques in the form of

appendices boxed off key information highlighting the most fundamental and key aspects and worked examples with additional question sets Magnetohydrodynamic Processes in The Solar Plasma covers both the fundamentals of the topics included as well as up to date and future developments in this research field forming an essential foundational reference for researchers academics and advanced students in the field of solar physics and astrophysics as well as neighboring disciplines Applies fundamental solar science and research in magnetohydrodynamic processes to practice and uses in teaching and research Covers the latest developments in solar plasma processes in terms of both theoretical and fundamental aspects Includes the large cohort of plasma processes e g waves shocks instabilities reconnection heating magnetism seismology significant for the diverse scales of the plasmas and fluids Provides detailed physical and mathematical descriptions of the theories in each chapter along with scientific details which will enhance understanding of basic phenomena and aid in applying the practical content to current research

### **Shock Waves and Reaction—Diffusion Equations** Joel

Smoller, 2012-12-06 the progress of physics will to a large extent depend on the progress of nonlinear mathematics of methods to solve nonlinear equations and therefore we can learn by comparing different nonlinear problems WERNER HEISENBERG I undertook to write this book for two reasons First I wanted to make easily available the basics of both the theory of hyperbolic conservation laws and the theory of systems of reaction diffusion equations including the generalized Morse theory as developed by C Conley These important subjects seem difficult to learn since the results are scattered throughout the research journals 1 Second I feel that there is a need to present the modern methods and ideas in these fields to a wider audience than just mathematicians Thus the book has some rather sophisticated aspects to it as well as certain textbook aspects The latter serve to explain somewhat the reason that a book with the title Shock Waves and Reaction Diffusion Equations has the first nine chapters devoted to linear partial differential equations More precisely I have found from my classroom experience that it is far easier to grasp the subtleties of nonlinear partial differential equations after one has an understanding of the basic notions in the linear theory This book is divided into four main parts linear theory reaction diffusion equations shock wave theory and the Conley index in that order Thus the text begins with a discussion of ill posed problems

*The Structure and Stability of Magnetohydrodynamic Shock Waves* R. Ford, 1966 **Magnetohydrodynamic Shock Waves in a Plasma** A. L. Velikovich, M. A. Liberman, 1987 On the Structure of Magnetohydrodynamic Shock Waves Joel A. Smoller, Charles C. Conley, University of Wisconsin--Madison. Mathematics Research Center, WISCONSIN UNIVERSITY OF MADISON MATHEMATICS RESEARCH CENTER, 1974 Fast and slow magnetohydrodynamic shock waves of arbitrary strength for general equations of state and for arbitrary non zero viscosity matrix are shown to possess structure Author

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