



SHOCK WAVES IN COLLISIONLESS PLASMAS

**By DEREK A. THOMAS
and NICHOLAS A. KRALL**

A Volume in the Wiley Series in Plasma Physics
Edited by Rumbold C. Marsh

Shock Waves In Collisionless Plasmas

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Shock Waves In Collisionless Plasmas:

Shock Waves in Collisionless Plasmas Derek A. Tidman, Nicholas A. Krall, 1971 *Physics of Collisionless Shocks* André Balogh, Rudolf A. Treumann, 2013-01-04 The present book provides a contemporary systematic treatment of shock waves in high temperature collisionless plasmas as are encountered in near Earth space and in Astrophysics It consists of two parts Part I develops the complete theory of shocks in dilute hot plasmas under the assumption of absence of collisions among the charged particles when the interaction is mediated solely by the self consistent electromagnetic fields Such shocks are naturally magnetised implying that the magnetic field plays an important role in their evolution and dynamics This part treats subcritical shocks which dissipate flow energy by generating anomalous resistance or viscosity The main emphasis is however on super critical shocks where the anomalous dissipation is insufficient to retard the upstream flow These shocks depending on the direction of the upstream magnetic field are distinguished as quasi perpendicular and quasi parallel shocks which exhibit different behaviours reflecting particles back upstream and generating high electromagnetic wave intensities Particle acceleration and turbulence at such shocks become possible and important Part II treats planetary bow shocks and the famous Heliospheric Termination shock as examples of two applications of the theory developed in part I *Dissipation Mechanisms in Weak Shock Waves in Collisionless Plasmas* James M. Witting, 1964 **Plasma Physics**, 1971-02-27 Plasma Physics *Handbook of Shock Waves, Three Volume Set* Gabi Ben-Dor, Ozer Igra, Tov Elperin, 2000-10-18 The Handbook of Shock Waves contains a comprehensive structured coverage of research topics related to shock wave phenomena including shock waves in gases liquids solids and space Shock waves represent an extremely important physical phenomena which appears to be of special practical importance in three major fields compressible flow aerodynamics materials science and astrophysics Shock waves comprise a phenomenon that occurs when pressure builds to force a reaction i e sonic boom that occurs when a jet breaks the speed of sound This Handbook contains experimental theoretical and numerical results which never before appeared under one cover the first handbook of its kind The Handbook of Shock Waves is intended for researchers and engineers active in shock wave related fields Additionally R D establishments applied science research laboratories and scientific and engineering libraries both in universities and government institutions As well as undergraduate and graduate students in fluid mechanics gas dynamics and physics Key Features Ben Dor is known as one of the founders of the field of shock waves Covers a broad spectrum of shock wave research topics Provides a comprehensive description of various shock wave related subjects First handbook ever to include under one separate cover experimental theoretical and numerical results Microphysics of Cosmic Plasmas André Balogh, Andrei Bykov, Peter Cargill, Richard Dendy, Thierry Dudok de Wit, John Raymond, 2014-01-15 Presents a comprehensive review of physical processes in astrophysical plasmas This title presents a review of the detailed aspects of the physical processes that underlie the observed properties structures and dynamics of cosmic plasmas An assessment of the status of understanding of microscale processes

in all astrophysical collisionless plasmas is provided The topics discussed include turbulence in astrophysical and solar system plasmas as a phenomenological description of their dynamic properties on all scales observational theoretical and modelling aspects of collisionless magnetic reconnection the formation and dynamics of shock waves and a review and assessment of microprocesses such as the hierarchy of plasma instabilities non local and non diffusive transport processes and ionisation and radiation processes In addition some of the lessons that have been learned from the extensive existing knowledge of laboratory plasmas as applied to astrophysical problems are also covered This volume is aimed at graduate students and researchers active in the areas of cosmic plasmas and space science Originally published in Space Science Reviews journal Vol 278 2 4 2013

The Physics of Laser Plasmas and Applications - Volume 2 Hideaki

Takabe, 2024-03-28 This open access book Volume 2 is part of the series The Physics of Laser Plasmas and Applications It serves as an introduction to the physics of compressible hydrodynamics which is used to describe the temporal evolution of plasmas generated by intense laser irradiation of solid surfaces For the benefit of students and young researchers the book presents the fundamental equations and provides a comprehensible explanation of solutions to intricate fluid phenomena It builds upon the concept of plasma generation through the heating of matter via the classical absorption of a laser as expounded in Volume 1 The high temperature plasma resulting from the laser interaction manifests in diverse hydrodynamic occurrences like shock waves and expansion waves The initial sections of this book expound the essentials of compressible hydrodynamics magnetohydrodynamics MHD and the physics of shock waves The transfer of laser energy within an expanding plasma towards regions of higher density is achieved through electron and X ray transport mechanisms In both instances conventional diffusion models prove inadequate necessitating mathematical frameworks founded on the Boltzmann equation The conveyed energy engenders ablation pressure equivalent to tens of millions of atmospheres on the solid surface This pressure initiates powerful shock waves propagating through the solid material The propagation of these shock waves is delineated for scenarios involving planar and spherical geometries The text also introduces various solutions pertaining to convergent and divergent shocks in spherical geometries using self similar models The discourse then shifts towards ionization and related atomic processes which govern the dynamics of plasmas created by laser irradiation of mid Z and high Z solids The quantum mechanics of partially ionized atoms and their associated atomic processes are elucidated Concluding the book is an exploration of the physics of warm dense matter WDM an electron system characterized by quantum mechanical many body interactions The study of high density plasmas featuring temperatures around 1 eV is undertaken through the lens of density functional theory DFT The theoretical breakdown of experimental data acquired via the X ray free electron laser X FEL is also provided In essence this second volume of the series amalgamates a comprehensive understanding of compressible hydrodynamics shock wave physics ionization processes energy transfer and the realm of warm dense matter It equips readers to delve into the intricacies of plasma physics and laser interactions while utilizing

modern theoretical frameworks and experimental methodologies This is an open access book **Introduction to Plasmas and Plasma Dynamics** Hai-Bin Tang, Thomas M. York, 2024-05-09 Introduction to Plasmas and Plasma Dynamics With Plasma Physics Applications to Space Propulsion Magnetic Fusion and Space Physics Second Edition provides an accessible introduction to the understanding of high temperature ionized gases necessary to conduct research and develop applications related to plasmas Thoroughly updated and expanded this sec Describes plasma applications with close reference to elementary processes promoting a deeper understanding of plasmas in new fields Provides structured problems in every chapter that help readers grasp the book s practical lessons Includes a new chapter on numerical methods in plasmas that adds crucial context for experimental approaches **Nuclear Science Abstracts** ,1976 *History of Shock Waves, Explosions and Impact* Peter O. K. Krehl, 2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion The history of this complex process is first reviewed in a general survey Subsequently the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery This book is ideal for everyone professionally interested in shock wave phenomena

Scientific and Technical Aerospace Reports ,1972 *NASA Reference Publication* ,1977 **Fusion Energy Update** ,1980 **Energy Research Abstracts** ,1984 Plasma Physics Index ,1982 *Nuclear Science Abstracts* ,1972

ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976-05 New Challenges in Space Plasma Physics: Open Questions and Future Mission Concepts Luca Sorriso-Valvo, Alessandro Retino, Christopher H. K. Chen, Daniel Verscharen, 2023-02-15 Particle Acceleration Processes, Shockwaves, Nucleosyntheses and Cosmic Rays COSPAR. Plenary Meeting, 1984

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