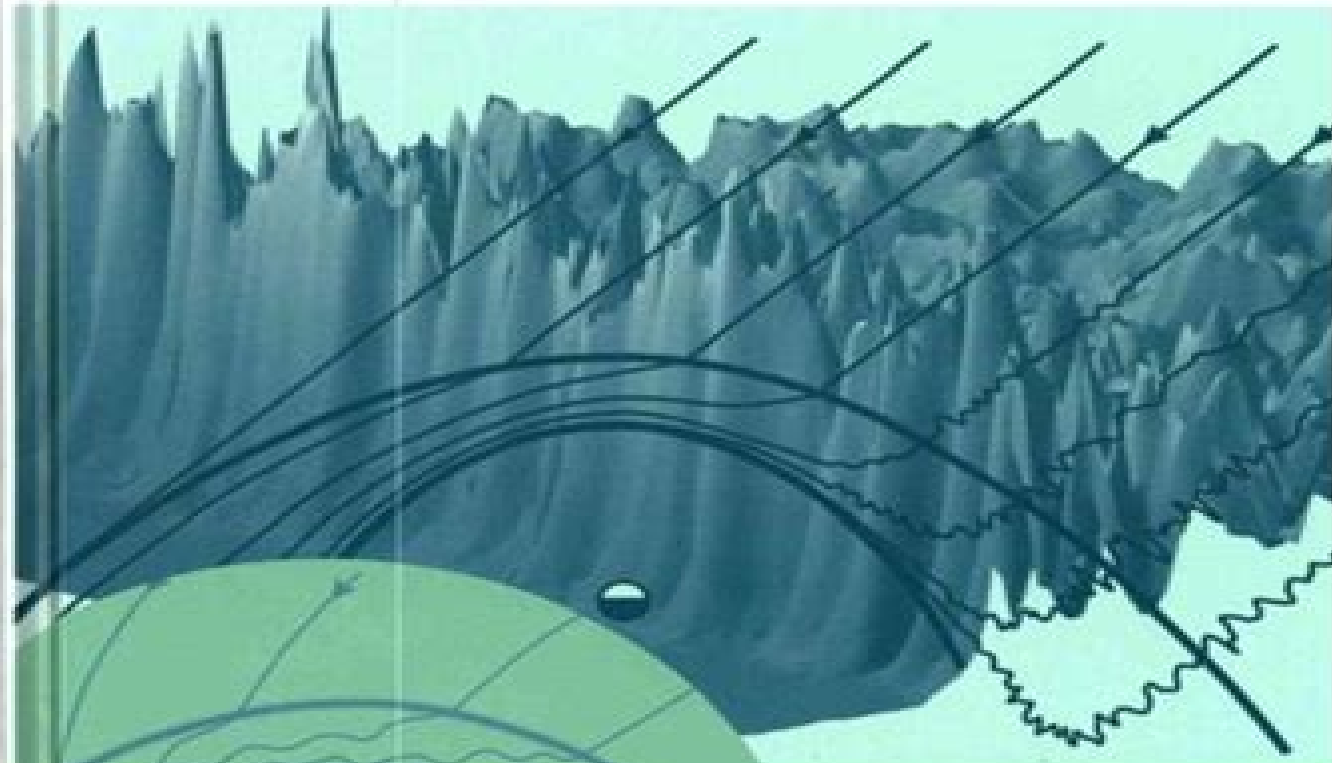


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# Collisionless Shocks in Space Plasmas

Structure and Accelerated Particles

David Burgess and Manfred Scholer

# Collisionless Shocks In The Heliosphere

**Paul Song, B. U. O. Sonnerup, M. F.  
Thomsen**



## **Collisionless Shocks In The Heliosphere:**

Collisionless Shocks in the Heliosphere Robert G. Stone, Bruce T. Tsurutani, 1985 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 35 Violent expansions of the solar corona cause transient shock waves which propagate outward from the sun at hundreds to thousands of kilometers per second simple solar wind velocity gradients at the surface of the sun lead to high speed streams overtaking slower streams forming corotating shocks and steady state supermagnetosonic solar wind flow past objects such as the planets lead to standing bow shocks However the solar wind plasma is so hot and tenuous that charged particle Coulomb collisions produce negligible thermalization or dissipation on scale sizes less than 0.1 AU The irreversible plasma heating by these shocks is accomplished by wave particle interactions driven by plasma instabilities Hence these shocks are described as collisionless *Ion Heating in Collisionless Shocks in Supernovae and the Heliosphere* Kelly Elizabeth Korreck, 2005 *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 *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 **The Physics of Collisionless Shocks** Gang Li,Gary P. Zank,Christopher T. Russell,2005-09 The 4th IGPP Astrophysics Conference proceedings discuss various aspects of collisionless shock physics in solar system plasmas including the microstructure of collisionless shocks wave activities at and near shocks particle acceleration at collisionless shocks and collisionless shocks in the outer heliosphere This volume can serve both as a summary of the current understanding of collisionless shock physics and as a starting point for future research especially for young scientists in this field

**Nonlinear Acoustics** K.A. Naugol'nikh,L.A. Ostrovsky,1997-05-08 Market Acousticians research scientists instructors and graduate and advanced undergraduate students in nonlinear acoustics This book contains a collection of papers by authors of the Former Soviet Union The topics covered are media with structural nonlinearities optical generation of sound acoustic beat wave interactions acoustic shock waves thermal self focusing of acoustic waves solitons statistical nonlinear acoustics media with relaxation and oscillatory degrees of freedom parametric arrays and fluid cavitation **Basic Space Plasma Physics (Revised Edition)** Wolfgang Baumjohann,Rudolf A Treumann,2012-03-20 This textbook begins with a description of the Earth s plasma environment followed by the derivation of single particle motions in electromagnetic fields with applications to the Earth s magnetosphere Also discussed are the origin and effects of collisions and conductivities formation of the ionosphere magnetospheric convection and dynamics and solar wind magnetosphere coupling The second half of the book presents a more theoretical foundation of plasma physics starting with kinetic theory Introducing moments of distribution function permits the derivation of the fluid equations followed by an analysis of fluid boundaries with the Earth s magnetopause and bow shock as examples and finally fluid and kinetic theory are applied to derive the relevant wave modes in a plasma This revised edition seamlessly integrates new sections on magnetopause reconstruction as well as instability theory and thermal fluctuations based on new developments in space physics Applications such as the important problems of collisionless reconnection and collisionless shocks are covered and some problems have also been included at the end of each chapter **Collisionless Shocks in Space Plasmas** David Burgess (Astrophysicist),M. Scholer,2015 **The Sun, the Solar Wind, and the Heliosphere** Mari Paz Miralles,Jorge Sánchez Almeida,2011-01-06 This volume represents the state of the art of the science covered by the International Association of Geomagnetism and Aeronomy IAGA Division IV Solar Wind and Interplanetary Field It contains a collection of contributions by top experts addressing and reviewing a variety of topics included under the umbrella of the division It covers subjects that extend from the interior of the Sun to the heliopause and from the study of physical processes in the Sun and the solar wind plasma to space weather forecasts The book is organized in 6 parts the solar interior the solar atmosphere the heliosphere heliophysical processes radio emissions and coordinated

science in the Sun Earth system In addition we highlight some of the results presented during the IAGA Division IV symposia in the 11th Scientific Assembly of IAGA in Sopron Hungary on 23-30 August 2009 which was planned simultaneously with this book

**Comparative Studies of Magnetospheric Phenomena** COSPAR. Scientific Assembly, 1995 These papers include an exploration of how the solar wind interacts with different solar system obstacles research on Galileo's flybys of asteroids Gaspra and Ida and a comparison between the terrestrial and Jovian magnetospheres The Dynamic Heliosphere H. Fichtner, 2005

**Izvestiya Akademii nauk SSSR**, 1984

**Encyclopedia of Astronomy & Astrophysics** P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work

Physics of the Inner Heliosphere II Rainer Schwenn, Eckart Marsch, 1991-07-30 Physics of the Inner Heliosphere gives for the first time a comprehensive and complete summary of our knowledge of the inner solar system Using data collected over more than 11 years by the HELIOS twin solar probes one of the most successful ventures in unmanned space exploration the authors have compiled six extensive reviews of the physical processes of the inner heliosphere and their relation to the solar atmosphere Researchers and advanced students in space and plasma physics astronomy and solar physics will be surprised to see just how closely the heliosphere is tied to and how sensitively it depends on the sun Volume 2 deals with particles waves and turbulence with chapters on magnetic clouds interplanetary clouds the solar wind plasma and MHD turbulence waves and instabilities energetic particles in the inner solar system

Physics Briefs, 1993

**Proceedings of the ... International Solar Wind Conference**, 1988

*The International Heliospheric Study* COSPAR. Plenary Meeting, 1989 The International Heliospheric Study is a program sponsored by COSPAR that exploits the unique scientific opportunities presented by the continuing operation of the four Pioneer and Voyager spacecraft which are all in or beyond the outer solar system The heliosphere is the region of space surrounding the sun which is dominated by the solar wind and from which the local interstellar plasma and magnetic field are excluded The multispacecraft studies which form the basis of the IHS encompass the structure and dynamics of the solar wind and its interaction with the interstellar medium including those components neutral gas and galactic cosmic rays which are able to penetrate into the heliosphere

**Physics of the Magnetopause** Paul Song, B. U. O. Sonnerup, M. F. Thomsen, 1995-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 90 This volume provides a comprehensive overview of our current

observational knowledge and theoretical understanding of the outer boundary of the Earth's magnetic field the magnetopause. All mass momentum and energy transferred from the solar wind plasma flow into the geomagnetic cavity must cross the magnetopause. The magnetopause itself is closely coupled to the high latitude ionosphere. For this reason the volume should be of interest not only to scientists and students concerned with the physics of the magnetopause proper but also to magnetospheric ionospheric and upper atmospheric workers in general. Much of the material in the volume is relevant to other planetary magnetopauses and as an example of an interface between two collisionless plasmas the Earth's magnetopause is also relevant in solar interplanetary cosmic and laboratory plasma physics. NCAR Technical Notes, 1962

Encyclopedia of the Solar System Paul Weissman, Lucy-Ann McFadden, Torrence Johnson, 1998-09-18. The Encyclopedia of the Solar System provides a series of comprehensive and authoritative articles written by more than 50 eminent planetary and space scientists. Each chapter is self contained yet linked by cross references to other related chapters. This beautifully designed book is a must for the library of professional astronomers and amateur star gazers alike. In fact for anyone who wishes to understand the nature of our solar system. Key Features: Cross referenced throughout for easy comprehension. Superbly illustrated with over 700 photos, drawings and diagrams including 36 color plates. Provides 40 thematically organized chapters by more than 50 eminent contributors. Convenient glossaries of technical terms introduce each chapter. Academic Press maintains a web site for the Encyclopedia at [www.academicpress.com/solar](http://www.academicpress.com/solar). Author recommended web resources for additional information, images and research developments related to each chapter of this volume are available [here](#).

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