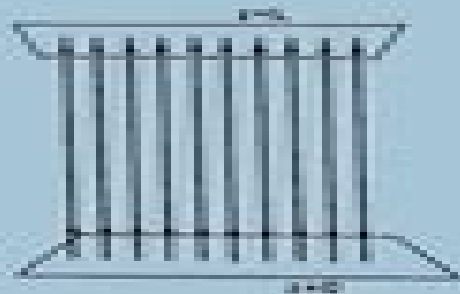


Spontaneous Current Sheets in Magnetic Fields

With Applications to Stellar X-Rays

Eugene N. Parker



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Spontaneous Current Sheets In Magnetic Fields With Applications To Stellar X Rays

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Spontaneous Current Sheets in Magnetic Fields Eugene N. Parker, 1994-07-21 Expanding upon the ideas first proposed in his seminal book *Cosmical Magnetic Fields* Eugene N Parker here offers the first in depth treatment of the magnetohydrodynamic theory of spontaneous magnetic discontinuities In detailing his theory of the spontaneous formation of tangential discontinuities current sheets in a magnetic field embedded in highly conducting plasma Parker shows how it can be used to explain the activity of the external magnetic fields of planets stars interstellar gas clouds and galaxies as well as the magnetic fields in laboratory plasmas Provocative and fascinating *Spontaneous Current Sheets in Magnetic Fields* presents a bold new theory that will excite interest and discussion throughout the space physics community *Spontaneous Current Sheets in Magnetic Fields* Eugene Newman Parker, 2023 Expanding upon the ideas proposed in his seminal book the author offers the treatment of the magnetohydrodynamic theory of spontaneous magnetic discontinuities He shows how it can be used to explain the activity of the external magnetic fields of planets interstellar gas clouds galaxies and the magnetic fields in laboratory plasmas *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.

The Problem of Coronal Heating Philip Judge, James A.

Ionson, 2024-03-19 This book reflects on 8 decades of research on one of the longest standing unsolved problems in modern astrophysics: why does the Sun form a hot corona? The authors give a critical overview of the field and offer suggestions on how to bridge the chasm between what we can measure and what we can calculate. They go back to basics to explain why the problem is difficult, where we have made progress and where we have not, to help the next generation of scientists devise novel techniques to crack such a long-lasting problem. A way forward is formulated, centered around refutation using Bayesian methods to propose and to try to reject hypotheses and models, and avoiding seduction by confirmation bias. This book is aimed at physicists, students and researchers interested in understanding learning from and solving the coronal heating problem in an era of new dedicated facilities such as the Parker Solar Probe and the Daniel K. Inouye Solar Telescope. The book will appeal to those interested in understanding research methods and how they are changing in the modern academic environment, particular in astrophysics and Earth sciences where remote sensing is essential.

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.

Planetary Systems Now

Luisa M. Lara, David Jewitt, 2023-03-23 Planetary Systems Now offers a broad interdisciplinary perspective and introduction to the latest results from leading experts in each field. It offers an unusually wide range of research on topics both inside and outside of the solar system as well as the most recent results from ongoing ground and space-based investigations. Experts in their field come together in this volume to discuss solar system exploration with its most recent space missions, theories and evidence concerning planetary system formation and the nature and formation of exoplanets and exoplanetary systems.

Including both questions and answers this book is intended to be a readable heavily illustrated stepping off point for advanced undergraduate students graduate students and scientists beginning research in planetary and exoplanetary science topics

Handbook of the Solar-Terrestrial Environment Yohsuke Kamide, Abraham C.-L. Chian, 2007-08-02 As a star in the universe the Sun is constantly releases a wide range of time and spatial scales making energy into space as much as erg s The observations in the solar terrestrial environment energy emission basically consists of three modes The first and the understanding of processes of solar energy is the so called blackbody radiation In the early days the phenomena in each plasma region commonly known as sunlight and the second region were studied separately but with the progress of solar electromagnetic emission such as X rays of research we realized the importance of treating and UV radiation is mostly absorbed above the Earth's the whole chain of processes as an entity because of stratosphere The third mode of solar energy emission is strong interactions between various regions within in the form of particles having a wide range of energies the solar terrestrial system On the basis of extensive from less than keV to more than GeV It is convenient satellite observations and computer simulations over to group these particles into lower energy particles and the past two decades it has become possible to analyze higher energy particles which are referred to as the so called the close coupling of different regions in the solar wind and solar cosmic rays respectively solar terrestrial environment

Astrophysical Hydrodynamics Steven N. Shore, 2008-06-25 This latest edition of the proven and comprehensive treatment on the topic from the bestselling author of Tapestry of Modern Astrophysics has been updated and revised to reflect the newest research results Suitable for AS0000 and AS0200 courses as well as advanced astrophysics and astronomy lectures this is an indispensable theoretical backup for studies on celestial body formation and astrophysics Includes exercises with solutions

Magnetic Reconnection Walter Gonzalez, Eugene Parker, 2016-02-22 This book provides an overview of recent research highlights in the main areas of application of magnetic reconnection MR including planetary solar and magnetospheric physics and astrophysics It describes how research on magnetic reconnection especially concerning the Earth's magnetosphere has grown extensively due to dedicated observations from major satellite missions such as Cluster Double Star and Themis The accumulated observations from these missions are being supplemented by many theoretical and modelling efforts for which large scale computer facilities are successfully being used and the theoretical advances are also covered in detail Opening with an introductory discussion of some fundamental issues related to magnetic reconnection subsequent chapters address topics including collisionless magnetic reconnection MHD structures in 3D reconnection energy conversion processes fast reconnection mediated by plasmoids rapid reconnection and magnetic field topology Further chapters consider specific areas of application such as magnetospheric dayside and tail reconnection comparative reconnection in planetary systems and reconnection in astrophysical systems The book offers insight into discussions about fundamental concepts and key aspects of MR access to the full set of applications of MR as presently known in space physics

and in astrophysics and an introduction to a new related area of study dealing with the annihilation of quantum magnetic fluxes and its implications in the study on neutron star activity The book is aimed primarily at students entering the field but will also serve as a useful reference text for established scientists and senior researchers Heliophysics: Space Storms and Radiation: Causes and Effects Carolus J. Schrijver, George L. Siscoe, 2010-05-06 Heliophysics is a fast developing scientific discipline that integrates studies of the Sun's variability the surrounding heliosphere and the environment and climate of planets The Sun is a magnetically variable star and for planets with intrinsic magnetic fields planets with atmospheres or planets like Earth with both there are profound consequences This 2010 volume the second in this series of three heliophysics texts integrates the many aspects of space storms and the energetic radiation associated with them from causes on the Sun to effects in planetary environments It reviews the physical processes in solar flares and coronal mass ejections interplanetary shocks and particle acceleration and transport and considers many space weather responses in geospace In addition to its utility as a textbook it also constitutes a foundational reference for researchers in fields from heliophysics to climate science Additional online resources including lecture presentations and other teaching materials are available at www.cambridge.org/9780521760515

Solar Flares and Collisions between Current-Carrying Loops Jun-Ichi Sakai, C. de Jager, 2012-12-06 In this volume we compare modern observations of solar flares with results from recent theoretical research and simulation studies on current carrying loops and their interaction These topics have undergone rapid developments in the course of recent years Observational results by X ray monitoring and imaging spacecraft in the seventies and by dedicated imaging instrumentation in the satellites Solar Maximum Mission and Hinotori launched 1980 and 1981 have shown the importance of X ray imaging for understanding the ignition processes of solar flares Such observations in turn stimulated theoretical studies centered around the flux tube concept The classical idea that flares originate by interaction of current carrying loops was developed and proved to be promising Concepts on reconnection and coalescence of flux tubes were developed and their consequences studied The Yohkoh spacecraft launched 1991 showed the overwhelming importance of coronal flux tubes and their many possible ways of interaction Subsequent and parallel theoretical studies and simulations differentiating between the topology of interacting flux tubes demonstrated that the mutual positioning and the way of interaction are important for the subsequent processes of energy release in flares and the many associated phenomena such as the expulsion of jets and the emission of X ray and microwave radiation The new developments now enable researchers to understand and classify flares in a physically significant way Various processes of acceleration are active in and after flares on greatly varying timescales these can now be distinguished and explained

Lectures on Solar Physics H.M. Antia, A. Bhatnagar, Peter Ulmschneider, 2008-01-11 This volume has grown out of lectures addressing primarily graduate students and researchers working in related areas in both astrophysics and space sciences All contributions are self contained and do not require prior in depth knowledge of solar physics The result is a

unique textbook that fulfills the needs of those wishing to have a pedagogic exposition of solar physics bringing them up to date in a field full of vitality and with exciting research *Space Physics and Aeronomy, Solar Physics and Solar Wind* Nour E. Raouafi, Angelos Vourlidas, 2021-05-11 A comprehensive view of our Sun at the start of a new era in solar and heliospheric physics Humans have been observing and studying our Sun for centuries yet much is still unknown about the processes that drive its behavior Thanks to a new generation of space missions and ground telescopes we are poised to dramatically increase our understanding of the Sun and its environment Solar Physics and Solar Wind explores advances in solar and heliospheric research over recent decades as well as the challenges that remain This comprehensive reference work covers the solar interior magnetism and radiation plasma heating and acceleration the sun s atmosphere and solar activity Volume highlights include Explanations for processes in the solar interior New insights on the solar wind The challenges of measuring the Sun s magnetic field and its radiative output Description of solar atmospheric phenomena such as spicules and jets New developments in understanding flares and coronal mass ejections Ongoing research into how the solar corona is heated The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about the Space Physics and Aeronomy collection in this Q A with the Editors in Chief **Convection and Substorms** Charles F. Kennel, 1996-02-08 The magnetosphere is the region where cosmic rays and the solar wind interact with the Earth s magnetic field creating such phenomena as the northern lights and other aurorae The configuration and dynamics of the magnetosphere are of interest to planetary physicists geophysicists plasma astrophysicists and to scientists planning space missions The circulation of solar wind plasma in the magnetosphere and substorms have long been used as the principle paradigms for studying this vital region Charles F Kennel a leading scientist in the field here presents a synthesis of the convection and substorm literatures and an analysis of convection and substorm interactions he also suggests that the currently accepted steady reconnection model may be advantageously replaced by a model of multiple tail reconnection events in which many mutually interdependent reconnections occur Written in an accessible non mathematical style this book introduces the reader to the exciting discoveries in this fast growing field **The Molecular Astrophysics of Stars and Galaxies** T. W. Hartquist, David A. Williams, 1998 This book provides a comprehensive survey of modern molecular astrophysics It includes an introduction to molecular spectroscopy and then addresses the main areas of current molecular astrophysics including galaxy formation star forming regions mass loss from young as well as highly evolved stars and supernovae starburst galaxies plus the tori and discs near the central engines of active galactic nuclei All chapters have been written by invited authors who are acknowledged experts in their fields The thorough editorial process has ensured a uniformly high standard of exposition and a coherent style The book is unique in giving a detailed view of its wide ranging subject It will provide the standard introduction for research students in molecular astrophysics The book will be read by

research astronomers and astrophysicists who wish to broaden the basis of their knowledge or are moving their activities into this burgeoning field It will enable chemists to learn the astrophysics most related to chemistry as well as instruct physicists about the molecular processes most important in astronomy

Literature 1997, Part 1 Astronomisches Rechen-InstitutARI,2013-11-11 Astronomy and Astrophysics Abstracts is devoted to the recording summarizing and indexing of astronomical publications throughout the world Two volumes are scheduled to appear per year Volume 67 records 10 903 papers covering besides the classical fields of astronomy and astrophysics such matters as space flights related to astronomy lunar and planetary probes and satellites meteorites and interplanetary matter X rays and cosmic rays quasars and pulsars The abstracts are classified under more than one hundred subject categories thus permitting quick surveying of the bulk of material published on the same topic within six months For instance this volume records 119 papers on minor planets 155 papers on supernovae and 554 papers on cosmology

Tubes, Sheets and Singularities in Fluid Dynamics K. Bajer,H.K. Moffatt,2006-04-11 Modern experiments and numerical simulations show that the long known coherent structures in turbulence take the form of elongated vortex tubes and vortex sheets The evolution of vortex tubes may result in spiral structures which can be associated with the spectral power laws of turbulence The mutual stretching of skewed vortex tubes when they are close to each other causes rapid growth of vorticity Whether this process may or may not lead to a finite time singularity is one of the famous open problems of fluid dynamics This book contains the proceedings of the NATO ARW and IUTAM Symposium held in Zakopane Poland 2 7 September 2001 The papers presented carefully reviewed by the International Scientific Committee cover various aspects of the dynamics of vortex tubes and sheets and of their analogues in magnetohydrodynamics and in quantum turbulence The book should be a useful reference for all researchers and students of modern fluid dynamics

Multi-scale Structure Formation and Dynamics in Cosmic Plasmas Andre Balogh,Andrei Bykov,Jonathan Eastwood,Jelle Kaastra,2016-02-02 This book offers eleven coordinated reviews on multi scale structure formation in cosmic plasmas in the Universe Observations and theories of plasma structures are presented in all relevant astrophysical contexts from the Earth s magnetosphere through heliospheric and galactic scales to clusters of galaxies and the large scale structure of the Universe Basic processes in cosmic plasmas starting from electric currents and the helicity concept governing the dynamics of magnetic structures in planet magnetospheres stellar winds and relativistic plasma outflows like pulsar wind nebulae and Active Galactic Nuclei jets are covered The multi wavelength view from the radio to gamma rays with modern high resolution telescopes discussed in the book reveals a beautiful and highly informative picture of both coherent and chaotic plasma structures tightly connected by strong mutual influence The authors are all leading scientists in their fields making this book an authoritative up to date and enduring contribution to astrophysics

New Technical Books New York Public Library,1994 Physics of Space Plasma Activity Karl Schindler,2006-11-23 Space plasma is so hot that the atoms break up into charged particles which then become trapped and stored in magnetic fields

When critical conditions are reached the magnetic field breaks up releasing a large amount of energy and causing dramatic phenomena The largest space plasma activity events observed in the solar system occur on the Sun when coronal mass ejections expel several billion tons of plasma mass into space This book provides a coherent and detailed treatment of the physical background of large plasma eruptions in space It provides the background necessary for dealing with space plasma activity and allows the reader to reach a deeper understanding of this fascinating natural event The book employs both fluid and kinetic models and discusses the applications to magnetospheric and solar activity This will form an interesting reference for graduate students and academic researchers in the fields of astrophysics and plasma physics

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