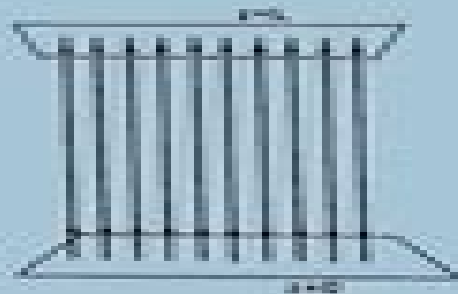


Spontaneous Current Sheets in Magnetic Fields

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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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 *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

Reconnection of Magnetic Fields J. Birn, E. R. Priest, 2007-01-04 The reconnection of magnetic fields is one of the most fascinating processes in plasma physics responsible for phenomena such as solar flares and magnetospheric substorms The concept of reconnection has developed through recent advances in exploring the magnetospheres of the Sun and Earth through theory computer simulations and spacecraft observations The great challenge in understanding it stems from balancing the large volumes of plasma and magnetic fields involved with the energy release with the physical mechanism which relies on the strongly localized behavior of charged particles This book edited by and with contributions from leading scientists in the field provides a comprehensive overview of recent theoretical and observational findings concerning the physics of reconnection and the complex structures that may give rise to or develop from reconnection It is intended for researchers and graduate students interested in the dynamics of plasmas **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.

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.

Fundamental Fluid Mechanics and Magnetohydrodynamics Roger J. Hosking, Robert L. Dewar, 2015-10-19 This book is primarily intended to enable postgraduate research students to enhance their understanding and expertise in Fluid Mechanics and Magnetohydrodynamics. MHD subjects no longer treated in isolation. The exercises throughout the book often serve to provide additional and quite significant knowledge or to develop selected mathematical skills and may also fill in certain details or enhance readers' understanding of essential concepts. A previous background or some preliminary reading in either of the two core subjects would be advantageous and prior knowledge of multivariate calculus and differential equations is expected.

Theory of One-Dimensional Vlasov-Maxwell Equilibria Oliver Allanson, 2018-08-10 This book describes and contextualises collisionless plasma theory and in particular collisionless plasma equilibria. The Vlasov-Maxwell theory of collisionless plasmas is an increasingly important tool for modern plasma physics research. Our ability to sustain plasma in a steady state and to mitigate instabilities determines the success of thermonuclear fusion power plants on Earth and our understanding of plasma aids in the prediction and mitigation of Space Weather effects on terrestrial environments and satellites. Further afield, magnetic reconnection is a ubiquitous energy release mechanism throughout the Universe and modern satellites are now able to make in situ measurements with kinetic scale resolution. To keep pace with these

challenges and technological developments a modern scientific discussion of plasma physics must enhance and exploit its literacy in kinetic theory For example accurate analytical calculations and computer simulations of kinetic instabilities are predicated on a knowledge of Vlasov Maxwell equilibria as an initial condition This book highlights new fundamental work on Vlasov Maxwell equilibria of potential interest to mathematicians and physicists alike Possible applications involve two of the most significant magnetic structures known to confine plasma and store energy current sheets and flux tubes

X-Rays and Extreme Ultraviolet Radiation David Attwood, Anne Sakdinawat, 2017-02-16 With this fully updated second edition readers will gain a detailed understanding of the physics and applications of modern X ray and EUV radiation sources Taking into account the most recent improvements in capabilities coverage is expanded to include new chapters on free electron lasers FELs laser high harmonic generation HHG X ray and EUV optics and nanoscale imaging a completely revised chapter on spatial and temporal coherence and extensive discussion of the generation and applications of femtosecond and attosecond techniques Readers will be guided step by step through the mathematics of each topic with over 300 figures 50 reference tables and 600 equations enabling easy understanding of key concepts Homework problems a solutions manual for instructors and links to YouTube lectures accompany the book online This is the go to guide for graduate students researchers and industry practitioners interested in X ray and EUV interaction with matter

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

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