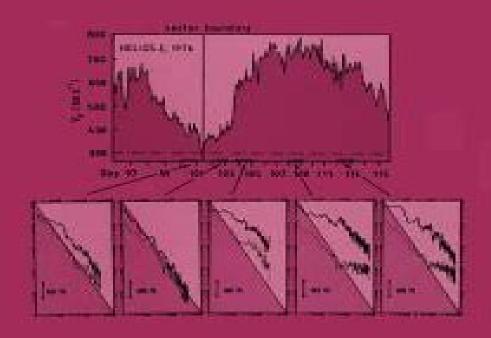
# MHD Structures, Waves and Turbulence in the Solar Wind

**Observations and Theories** 

C.-Y. Tu and E. Marsch



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# Mhd Structures Waves And Turbulence In The Solar Wind Observations And Theories

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Borovsky, Vadim Uritsky, Zoltan
Voros, Alessandro Retino, Gaetano
Zimbardo

#### Mhd Structures Waves And Turbulence In The Solar Wind Observations And Theories:

MHD Structures, Waves and Turbulence in the Solar Wind C.-Y. Tu, Eckart Marsch, 2013-06-29 This is the first book to give a comprehensive overview of recent observational and theoretical results on solar wind structures and fluctuations and magnetohydrodynamic waves and turbulence preference being given to phenomena in the inner heliosphere Emphasis is placed on the progress made in the past decade in the understanding of the nature and origin of especially small scale compressible and incompressible fluctuations Turbulence models describing the spatial transport and spectral transfer of the fluctuations in the inner heliosphere are discussed Intermittency of solar wind fluctuations and their statistical distributions are investigated Studies of the heating and acceleration effects of the turbulence on the background wind are critically surveyed Finally open questions concerning the origin nature and evolution of the fluctuations are listed and perspectives for future research are outlined The book is for graduate students and researchers in the field Other target groups are scientists and professionals interested in space plasma physics and or MHD turbulence Turbulence in the Solar Wind Roberto Bruno, Vincenzo Carbone, 2016-10-07 This book provides an overview of solar wind turbulence from both the theoretical and observational perspective It argues that the interplanetary medium offers the best opportunity to directly study turbulent fluctuations in collisionless plasmas In fact during expansion the solar wind evolves towards a state characterized by large amplitude fluctuations in all observed parameters which resembles at least at large scales the well known hydrodynamic turbulence This text starts with historical references to past observations and experiments on turbulent flows It then introduces the Navier Stokes equations for a magnetized plasma whose low frequency turbulence evolution is described within the framework of the MHD approximation It also considers the scaling of plasma and magnetic field fluctuations and the study of nonlinear energy cascades within the same framework It reports observations of turbulence in the ecliptic and at high latitude treating Alfv nic and compressive fluctuations separately in order to explain the transport of mass momentum and energy during the expansion Further existing models are compared with direct observations in the heliosphere The problem of self similar and anomalous fluctuations in the solar wind is then addressed using tools provided by dynamical system theory and discussed on the basis of available models and observations. The book highlights observations of Yaglom's law in solar wind turbulence which is one of the most important findings in fully developed turbulence and directly related to the long lasting and still unsolved problem of solar wind plasma heating Lastly it includes a short chapter dedicated to the kinetic range of fluctuations which has recently been receiving more attention from the space plasma community since this is inherently related to turbulent energy dissipation and consequent plasma heating It particularly focuses on the nature and role of the fluctuations populating this frequency range and discusses several model predictions and recent observational findings in this context The Role of Turbulence in the Solar Wind, Magnetosphere, Ionosphere Dynamics Marina Stepanova, Joseph E. Borovsky, Vadim Uritsky, Zoltan Voros, Alessandro Retino, Gaetano Zimbardo, 2022-03-24

Magnetohydrodynamics of the Sun Eric Priest, 2014-04-07 Magnetohydrodynamics of the Sun is a completely new up to date rewrite from scratch of the 1982 book Solar Magnetohydrodynamics taking account of enormous advances in understanding since that date It describes the subtle and complex interaction between the Sun's plasma atmosphere and its magnetic field which is responsible for many fascinating dynamic phenomena Chapters cover the generation of the Sun's magnetic field by dynamo action magnetoconvection and the nature of photospheric flux tubes such as sunspots the heating of the outer atmosphere by waves or reconnection the structure of prominences the nature of eruptive instability and magnetic reconnection in solar flares and coronal mass ejections and the acceleration of the solar wind by reconnection or wave turbulence It is essential reading for graduate students and researchers in solar physics and related fields of astronomy plasma physics and fluid dynamics Problem sets and other resources are available at www cambridge org 9780521854719

Multi-Wavelength Observations of Coronal Structure and Dynamics Penny Martens, D. Cauffman, 2002-10-21 These are the Proceedings of the Yohkoh 10th Anniversary Meeting a COSPAR Colloquium held in Kona Hawaii USA on January 20 24 2002 The title of the meeting was Multi Wavelength Observations of Coronal Structure and Dynamics In these proceedings the many and varied advances of the dynamics solar atmosphere in the past ten years of observations by Yohkoh have been reviewed **Energy Transfer and Dissipation in Plasma Turbulence** Yan Yang, 2019-05-02 This book revisits the long standing puzzle of cross scale energy transfer and dissipation in plasma turbulence and introduces new perspectives based on both magnetohydrodynamic MHD and Vlasov models The classical energy cascade scenario is key in explaining the heating of corona and solar wind By employing a high resolution hybrid compact finite difference WENO scheme the book

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