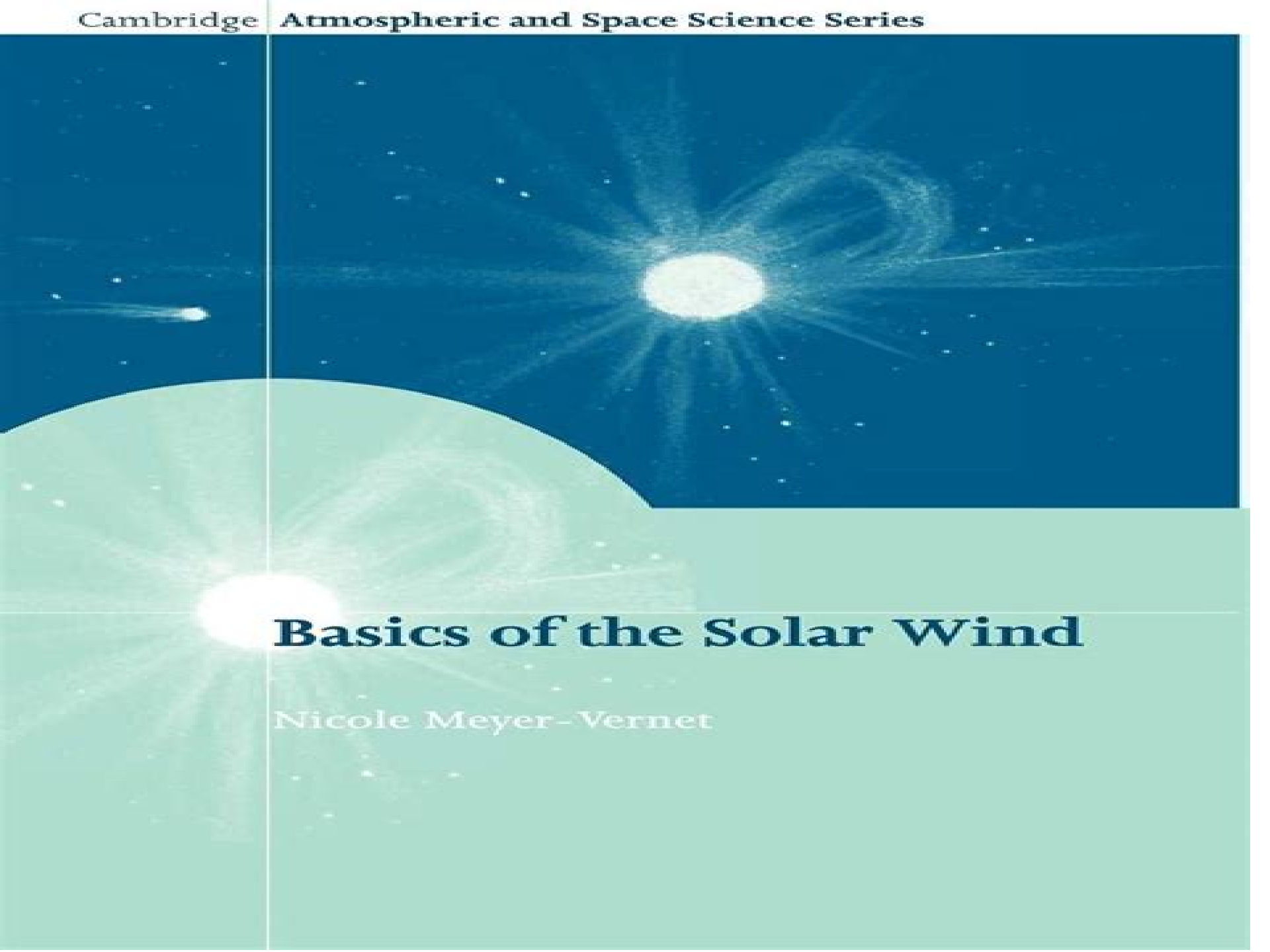


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Basics of the Solar Wind

Nicole Meyer-Vernet

Basics Of The Solar Wind Cambridge Atmospheric And Space Science Series

Sabine Zange



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Basics of the Solar Wind Nicole Meyer-Vernet, 2007-01-18 The Sun continually ejects matter into space blowing a huge bubble of supersonic plasma This solar wind bathes the whole solar system and shapes all planetary environments The growth of space technology has considerably increased our knowledge of this medium This 2007 book presents an introduction to the subject starting with basic principles and including all the latest advances from space exploration and theory It contains a short introduction to plasma physics and discusses the structure of the solar interior and atmosphere the production of solar wind and its perturbations It explains the objects of the Solar System from dust to comets and planets and their interaction with the solar wind The final sections explore the astrophysical point of view The topics are treated at various levels of difficulty both qualitatively and quantitatively This book will appeal to graduate students and researchers in earth and atmospheric sciences and astrophysics

Fast Solar Sailing Giovanni Vulpatti, 2012-08-10 The range of solar sailing is very vast it is a fully in space means of propulsion that should allow us to accomplish various mission classes that are literally impossible using rocket propulsion no matter if nuclear or electric Fast and very fast solar sailings are special classes of sailcraft missions initially developed only in the first half of the 1990s and still evolving especially after the latest advances in nanotechnology This book describes how to plan compute and optimize the trajectories of sailcraft with speeds considerably higher than 100 km s such sailcraft would be able to explore the outer heliosphere the near interstellar medium and the solar gravitational lens 550 800 astronomical units in times significantly shorter than the span of an average career 35 years just to cite a few examples The scientific interest in this type of exploration is huge

Electromagnetic Geophysical Fields Oleg Novik, Feodor Smirnov, Maxim Volgin, 2019-04-16 This book develops the theory of electromagnetic EM precursors to seaquakes i e underwater earthquakes and tsunamis including the sequential stages of the transformation of a weak seismic mechanical excitation of the sea bottom into EM signals in the atmosphere It further examines the relationship between geophysics and biophysics using appropriate mathematical support and a new model of the magnetic location of the epicenter of a possible land earthquake is described as well as a block scheme of the multidisciplinary multilevel seaquake monitoring complex Also discussed are measured changes of brain bioelectric activity and heart functioning under the influence of moderate geomagnetic storms Written for researchers and specialists e g upper level undergraduates postgraduates scientists in mathematical computational geophysical biophysical geodynamical seismological and prognostic disciplines this book provides multidisciplinary data and analytical tools supporting the theory and practice of seismic prognosis promoting further understanding of novel marine and land monitoring systems

Kappa Distributions Marian Lazar, Horst Fichtner, 2021-12-02 This book presents recent results on the modelling of space plasmas with Kappa distributions and their interpretation Hot and dilute space plasmas most often do not reach thermal equilibrium their dynamics being essentially conditioned by the kinetic effects of plasma particles i e electrons protons and heavier ions

Deviations from thermal equilibrium shown by these plasma particles are often described by Kappa distributions. Although well known, these distributions are still controversial in achieving a statistical characterization and a physical interpretation of non-equilibrium plasmas. The results of the Kappa modelling presented here mark a significant progress with respect to all these aspects and open perspectives to understanding the high-resolution data collected by the new generation of telescopes and spacecraft missions. The book is directed to the large community of plasma astrophysics, including graduate students and specialists from associated disciplines, given the palette of the proposed topics reaching from applications to the solar atmosphere and the solar wind via linear and quasilinear modelling of multi-species plasmas and waves within to the fundamental physics of non-equilibrium plasmas. *On the Origin of Myths in Catastrophic Experience, vol. 1: Preliminaries*

Marinus Anthony van der Sluijs, 2019-01-01. Creation myths around the world reveal an intricate network of recurrent motifs. Many of these are counterintuitive and not widely known, describing a time when the sky was low, the stars did not yet shine, multiple suns appeared, the moon was brighter than the sun, no land existed, deities and mortals maintained frequent contact, a world axis in the form of a tree ladder or giant man connected the earth with the sky, a devastating flood or fire ended the old order, and so forth. The present work, in multiple volumes, aims to find an origin for this cross-culturally and internally consistent body of traditions in a series of extraordinary natural events relating especially to the earth's transition from the last glacial period to the Holocene. This first volume sets the stage for the interdisciplinary hypothesis. Essential lines of research receive a historical introduction: comparative mythology, catastrophism, and the study of the mythical world axis in relation to the earth's rotation. Various astronomical and meteorological interpretations that are not strictly catastrophist are explored for several types of myths about the sun, the moon, and the world axis, but leave many of the most intriguing traditions unexplained. It is argued that a structural core of the worldwide mythology of creation and destruction, in which the cosmic axis takes pride of place, points to a specific period of dramatic natural circumstances in real prehistoric time. A new synopsis is provided of this universal mythological substrate. It emerges that the mythical world axis cannot have been based on a single object seen or imagined at one of the poles, as has usually been supposed. This surprising conclusion paves the way for the innovative geomagnetic theory proposed in volume 2. **Ionospheres** Robert Schunk, Andrew Nagy, 2009-08-20

Describes the physical plasma and chemical processes controlling ionospheres, upper atmospheres, and exospheres for researchers and graduates. *Physics of Partially Ionized Plasmas* Vinod Krishan, 2016-05-09. Provides comprehensive information on various aspects of partially ionized plasmas.

Earth's Magnetosphere Wayne Keith, Walter Heikkilä, 2020-11-24. Earth's Magnetosphere: Formed by the Low-Latitude Boundary Layer. Second Edition provides a fully updated overview of both historical and current data related to the magnetosphere and how it is formed. With a focus on experimental data and space missions, the book goes in depth relating space physics to the Earth's magnetosphere and its interaction with the solar wind. Starting with Newton's law, this book also examines Maxwell's equations and subsidiary

equations such as continuity constitutive relations and the Lorentz transformation Helmholtz theorem and Poynting's theorem among other methods for understanding this interaction This new edition of Earth's Magnetosphere is updated with information on such topics as 3D reconnection space weather implications recent missions such as MMS ionosphere outflow and coupling and the inner magnetosphere With the addition of end of chapter problems as well this book is an excellent foundational reference for geophysicists space physicists plasma physicists and graduate students alike Offers an historical perspective of early magnetospheric research combined with progress up to the present Describes observations from various spacecraft in a variety of regions with explanations and discussions of each Includes chapters on prompt particle acceleration to high energies plasma transfer event and the low latitude boundary layer **Collisionless Shocks in Space Plasmas**
David Burgess, Manfred Scholer, 2015-07-30 An engaging introduction to collisionless shocks in space plasmas presenting a complete review from first principles to current research Plasma Waves in Space Physics: Carrying On the Research Legacies of Peter Gary and Richard Thorne Joseph E. Borovsky, Charles William Smith, Yuri Y. Shprits, Misa Cowee, Richard Horne, 2023-03-28

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