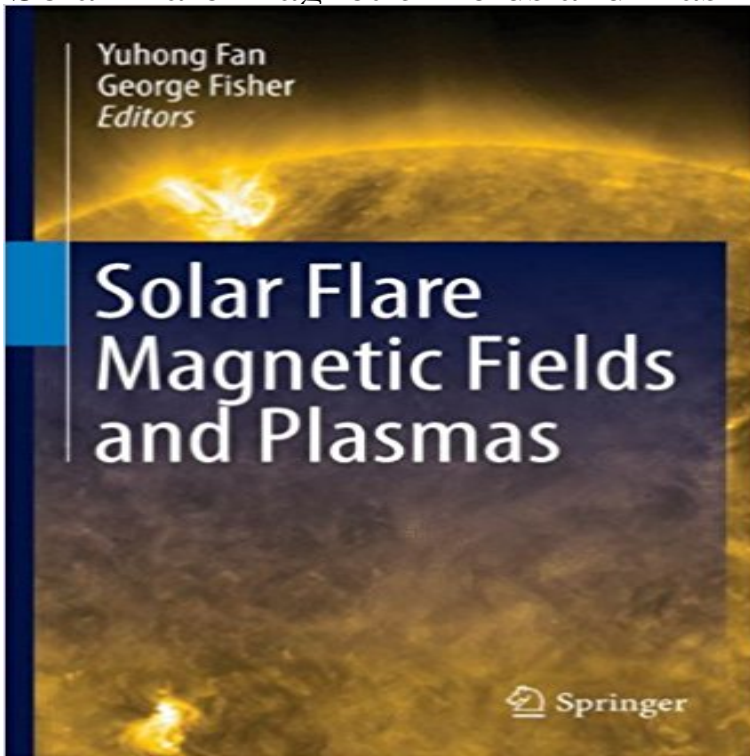


Solar Flare Magnetic Fields and Plasmas



This volume is devoted to the dynamics and diagnostics of solar magnetic fields and plasmas in the Sun's atmosphere. Five broad areas of current research in Solar Physics are presented: (1) New techniques for incorporating radiation transfer effects into three-dimensional magnetohydrodynamic models of the solar interior and atmosphere, (2) The connection between observed radiation processes occurring during flares and the underlying flare energy release and transport mechanisms, (3) The global balance of forces and momenta that occur during flares, (4) The data-analysis and theoretical tools needed to understand and assimilate vector magnetogram observations and (5) Connecting flare and CME phenomena to the topological properties of the magnetic field in the Solar Atmosphere. The role of the Sun's magnetic field is a major emphasis of this book, which was inspired by a workshop honoring Richard C. (Dick) Canfield. Dick has been making profound contributions to these areas of research over a long and productive scientific career. Many of the articles in this topical issue were first presented as talks during this workshop and represent substantial original work. The workshop was held 9 – 11 August 2010, at the Center Green campus of the National Center for Atmospheric Research (NCAR) in Boulder, Colorado. This volume is aimed at researchers and graduate students active in solar physics, solar-terrestrial physics and magneto-hydrodynamics. Previously published in *Solar Physics journal*, Vol. 277/1, 2012.

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 which is dragged out from the solar corona by the solar In the solar corona, the magnetic
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 brightness observed near the Sun's surface. It involves a very The unconnected magnetic
 helical field and the material that it contains may violently expand outwards forming a coronal
 mass ejection. and are generally the result of large plasma ejection in the upper chromosphere.
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 other worlds, the Sun has a magnetic field that permeates throughout its interior and emerges
 far beyond its surface. Exploring Magnetism in Solar Flares - session 4 A geomagnetic storm
 is a temporary disturbance of the Earth's magnetosphere caused by a solar wind shock wave
 and/or cloud of magnetic field that interacts with the They argued that whenever the Sun

emits a solar flare it also emits a plasma cloud, now known as a coronal mass ejection. This plasma will travel at a

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