

Sdo Solar Dynamic Observatory

Nagi N. Mansour,Alexander G. Kosovichev,Rudolf Komm,Dana Longcope

The Solar Dynamics Observatory Phillip Chamberlin, William Dean Pesnell, Barbara Thompson, 2012-05-05 This volume is dedicated to the Solar Dynamics Observatory (SDO), which was launched 11 February 2010. The articles focus on the spacecraft and its instruments: the Atmospheric Imaging Assembly (AIA), the Extreme Ultraviolet Variability Experiment (EVE), and the Helioseismic and Magnetic Imager (HMI). Articles within also describe calibration results and data processing pipelines that are critical to understanding the data and products, concluding with a description of the successful Education and Public Outreach activities. This book is geared towards anyone interested in using the unprecedented data from SDO, whether for fundamental heliophysics research, space weather modeling and forecasting, or educational purposes. Previously published in Solar Physics journal, Vol. 275/1-2, 2012. Selected articles in this book are published open access under a CC BY-NC 2.5 license at link.springer.com. For further details, please see the license information in the chapters.

Solar Dynamics Observatory (SDO) and Related Missions of Opportunity, 2002

Solar Dynamics and Magnetism from the Interior to the Atmosphere Nagi N. Mansour, Alexander G. Kosovichev, Rudolf Komm, Dana Longcope, 2013-12-03 Discusses recent advances and new problems in the exploration of the Sun's interior structure, solar dynamics and dynamo, mechanisms of sunspot and active regions formation, sources of solar irradiance variations and links between the subsurface dynamics, flaring and CME activity. NASA's Solar Dynamics Observatory (SDO) mission has provided a large amount of new data on solar dynamics and magnetic activities during the rising phase of the current and highly unusual solar cycle. These data are complemented by the continuing SOHO mission and by ground-based observatories that include the GONG helioseismology network and the New Solar Telescope. Also, the observations are supported by realistic numerical simulations on supercomputers. This unprecedented amount of data provides a unique opportunity for multi-instrument investigations that address fundamental problems of the origin of solar magnetic activity at various spatial and temporal scales. This book demonstrates that the synergy of high-resolution multi-wavelength observations and simulations is a key to uncovering the long-standing puzzles of solar magnetism and dynamics. This volume is aimed at researchers and graduate students active in solar physics and space science. Originally published in Solar Physics journal, Vol. 287/1-2, 2013.

The Sun to the Earth -- and Beyond National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Solar and Space Physics Survey Committee, 2003-07-01 The sun is the source of energy for life on earth and is the strongest modulator of the human physical environment. In fact, the Sun's influence extends throughout the solar system, both through photons, which provide heat, light, and ionization, and through the continuous outflow of a magnetized, supersonic ionized gas known as the solar wind. While the accomplishments of the past decade have answered important questions about the physics of the Sun, the interplanetary medium, and the space environments of Earth and other solar system bodies, they have also highlighted other questions, some of which are long-standing and fundamental. The Sun to the Earth and Beyond organizes these questions in terms of five challenges that are expected to be the focus of scientific investigations in solar and space physics during the coming decade and beyond.

Dynamic Sun B. N. Dwivedi, 2003-05 Table of contents

The Solar Transition Region John T. Mariska, 1992 The solar transition region, which spans the temperature range from about 20,000 to 1,000,000 K, separates the chromosphere from the corona. All the energy that heats the corona and powers the solar wind must pass through this part of the solar atmosphere. This book summarizes recent ultraviolet and extreme ultraviolet observations of the transition region, the empirical models derived from them, and the physical models that try to explain both the observations and the empirical models. The observational focus is on quiet solar transition region observations made with Skylab and subsequent rocket and satellite experiments. The book also presents a unified discussion of the analysis of ultraviolet and extreme ultraviolet spectroscopic data, including the determination of the emission measure and density and temperature diagnostics. This will be useful to astrophysicists who are confronting high-resolution ultraviolet and extreme ultraviolet data from astrophysical plasmas for the first time.

The Sun Beth Alesse, 2019-06-14 The Sun: Images from Space has extraordinary images of beauty with over 130 incredible details of our Sun taken from space. These images come from Solar Dynamics Observatory (SDO) Mission instruments in conjunction with other various instruments such as those on the Mars Rover. Our Sun, a yellow dwarf star, is the main source of energy for life on Earth. Life grows and thrives because of it. The sun is at the middle of our solar system. Yet until recently, we have not been able to see much of it or even observe its basic characteristics because of its blinding electromagnetic energy. Taken from space, these images were assembled using data collected by NASA and their partners showing our Sun as has not been revealed to us here on Earth, 93 million miles away. See the coronal mass ejections, electric currents, magnetic fields, solar wind, photosphere the chromosphere, the corona, and the hot plasma soup.

The Moon Beth Alesse, 2019-08-15 The Moon: NASA Images from Space, includes images from the National Aeronautics and Space Administration (NASA), European Space Agency (ESA), and other international space explorations. Early images show the very first Apollo missions to the Moon using film in a Hasselblad camera. NASA illustrations explain the Moon's tidal forces on the Earth's oceans, seas, and land mass, the Moon's phases as seen from Earth, the lunar geography, and Moon's composition. This book shows detailed maps of the Moon's surface: its incredible craters, ancient lava flows, plains, seas, and mountains. Included is speculation about the Moon's origin and its historical place in our solar system. Humanities future plans for lunar exploration and habitation are discussed. Can humans live there, and how? This book is a comprehensively illustrated collection of lunar visuals of over 150 images

Astronomy and Astrophysics in the New Millennium National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Board on Physics and Astronomy, Astronomy and Astrophysics Survey Committee, 2002-01-07 In preparing the report, Astronomy and Astrophysics in the New Millennium, the AAS made use of a series of panel reports that address various aspects of ground- and space-based astronomy and astrophysics. These reports provide in-depth technical detail. Astronomy and Astrophysics in the New Millennium: An Overview summarizes the science goals and recommended initiatives in a short, richly illustrated, non-technical booklet.

Exploring the Sun Nancy Dickmann, 2015-07-15 This colorful, dynamic title explains to upper-elementary-level readers the exciting science behind the sun and all its fantastic phenomena. The text covers the sun's role from ancient mythology and astronomy through modern discoveries before going in-depth and inside the sun's layers, breaking down the chemistry and physics behind the sun's composition and atmosphere. Thrilling events such as solar flares, eclipses, and star formation are explained with bright, color photographs and diagrams that will make the spectacular science behind the sun simple for every reader.

Solar Prominences Jean-Claude Vial, Oddbjørn Engvold, 2014-11-24 This volume presents the latest research results on solar prominences, including new developments on e.g. chirality, fine structure, magnetism, diagnostic tools and relevant solar plasma physics. In 1875 solar prominences, as seen out of the solar limb, were described by P.A. Secchi in his book *Le Soleil* as gigantic pink or peach-flower coloured flames. The development of spectroscopy, coronagraphy and polarimetry brought tremendous observational advances in the twentieth century. The authors present and discuss exciting new challenges (resulting from observations made by space and ground-based telescopes in the 1990s and the first decade of the 21st century) concerning the diagnostics of prominences, their formation, their life time and their eruption along with their impact in the heliosphere (including the Earth). The book starts with a general introduction of the prominence "object" with some historical background on observations and instrumentation. In the next chapter, the various forms of prominences are described with a thorough attempt of classification. Their thermodynamic (and velocity) properties are then derived with emphasis on the methods (and their limits) used. This goes from the simplest optically thin case to the heavy radiative treatment of plasmas out of local thermodynamic equilibrium. The following chapters are devoted to the magnetic field measurements and indirect derivation. A new branch of diagnostic tools, the seismology, is presented along with some MHD basics. This allows to better understand the propagation of waves, the energy and force equilibria. Both small-scale and large-scale studies and their relationship are presented. The importance of the newly discovered cavities is stressed in the context of prominence destabilization. The issues of prominence formation and eruption, their connection with flares and

Coronal Mass Ejections and their impact on the Earth are addressed on the basis of the latest results. Finally, an exciting new area of research is unveiled with the newly discovered evidence of similar manifestations in the Universe and their possible impact on the habitability of exoplanets. References to the basic physics (where necessary) are provided and the proposed web sites addresses will allow the reader to load exciting movies. The book is aimed at advanced students in astrophysics, post-graduates, solar physicists and more generally astrophysicists. Amateurs will enjoy the many new images which go with the text.

Guide to the Universe: The Sun David Alexander,2009-05-20 Our knowledge of the universe has increased tremendously over the last century, and our discoveries are not over - there remain scientific mysteries that the next generation of astronomers and planetary scientists will need to solve. This volume in the Greenwood Guides to the Universe series covers the Sun, and provides readers with the most up-to-date understanding of the current state of scientific knowledge. Scientifically sound, but written with the student in mind, The Sun is an excellent first step for researching the exciting scientific discoveries of the star at the center of our solar system. The Sun discusses all areas of research surrounding the subject, including: Sunspots and the solar surface; the many faces of the solar atmosphere; the solar wind and solar storms; and the long-term climate effects on the earth's atmosphere. The volume includes a glossary and a bibliography of useful resources for learning more about the subject.

Magnetic Flux Ropes: From the Sun to the Earth and Beyond Rui Liu,Jie Zhang,Yuming Wang,Hongqiang Song,2020-12-31 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Solar Surface Magnetism R. J. Rutten,C.J. Schrijver,2012-12-06 Observations of the solar magnetic field are largely confined to the radiation emitted from the photosphere, the thin layer of the solar atmosphere which we call the solar surface. It is from solar surface observations that we must infer the internal structure and the internal magnetohydrodynamic processes that lead to the multitude of fascinating phenomena of solar magnetic activity, and from solar surface observations we must also infer the interplay of convection and magnetism that regulates field dispersal, drives the heating of the outer-atmospheric plasma, and generates the solar wind. There is much to be learned from solar surface magnetism in physics and astrophysics; currently, there are rapid developments in this exciting field. The workshop of which this volume contains the proceedings aimed at a synthesis between observers and theorists, both with regard to the discrete elements that are the building blocks of solar magnetism and with regard to the larger-scale spatial and temporal patterns in which the magnetic elements emerge and disappear. The workshop was held during November 1-5, 1993 in Soesterberg, The Netherlands. The fifty participants took a very active part in making the workshop quite a lively one. The articles in these proceedings cover most of the oral and poster presentations, excepting a dozen soon to be published elsewhere.

New Millennium Solar Physics Markus J. Aschwanden,2019-05-22 This is a follow-on book to the introductory textbook Physics of the Solar Corona previously published in 2004 by the same author, which provided a systematic introduction and covered mostly scientific results from the pre-2000 era. Using a similar structure as the previous book the second volume provides a seamless continuation of numerous novel research results in solar physics that emerged in the new millennium (after 2000) from the new solar missions of RHESSI, STEREO, Hinode, CORONAS, and the Solar Dynamics Observatory (SDO) during the era of 2000-2018. The new solar space missions are characterized by unprecedented high-resolution imaging, time resolution, spectral capabilities, stereoscopy and tomography, which reveal the intricate dynamics of magneto-hydrodynamic processes in the solar corona down to scales of 100 km. The enormous amount of data streaming down from SDO in Terabytes per day requires advanced automated data processing methods. The book focuses exclusively on new research results after 2000, which are reviewed in a comprehensive manner, documented by over 3600 literature references, covering theory, observations, and numerical modeling of basic physical processes that are observed in high-temperature plasmas of the Sun and other astrophysical objects, such as plasma instabilities, coronal heating, magnetic reconnection processes, coronal mass ejections, plasma waves and oscillations, or particle acceleration.

The Sun: Beginner's guide to our local star Dr. Ryan French,Royal Observatory Greenwich,Collins Astronomy,2023-05-25 Despite its apparent unchanging appearance in the daytime sky, the Sun is incredibly dynamic and shrouded in mystery. In this guide, Dr. Ryan French explores history, science and modern observations to uncover the mysteries of the Sun.

Deep Learning in Solar Astronomy Long Xu,Yihua Yan,Xin Huang,2022-05-27 The volume of data being collected in solar astronomy has exponentially increased over the past decade and we will be entering the age of petabyte solar data. Deep learning has been an invaluable tool exploited to efficiently extract key information from the massive solar observation data, to solve the tasks of data archiving/classification, object detection and recognition. Astronomical study starts with imaging from recorded raw data, followed by image processing, such as image reconstruction, inpainting and generation, to enhance imaging quality. We study deep learning for solar image processing. First, image deconvolution is investigated for synthesis aperture imaging. Second, image inpainting is explored to repair over-saturated solar image due to light intensity beyond threshold of optical lens. Third, image translation among UV/EUV observation of the chromosphere/corona, Ha observation of the chromosphere and magnetogram of the photosphere is realized by using GAN, exhibiting powerful image domain transfer ability among multiple wavebands and different observation devices. It can compensate the lack of observation time or waveband. In addition, time series model, e.g., LSTM, is exploited to forecast solar burst and solar activity indices. This book presents a comprehensive overview of the deep learning applications in solar astronomy. It is suitable for the students and young researchers who are major in astronomy and computer science, especially interdisciplinary research of them.

The SOHO Mission Bernhard Fleck,Vicente Domingo,Arthur I. Poland,2012-12-06 SOHO, the Solar and Heliospheric Observatory, is a project of international cooperation between ESA and NASA to study the Sun, from its deep core to the outer corona, and the solar wind. To achieve its scientific goals it carries a complement of twelve sophisticated, state-of-the-art instruments. Three helioseismology instruments are expected to provide unique data for the study of the structure and dynamics of the solar interior, from the very deep core to the outermost layers of the convection zone. A set of five complementary remote sensing instruments, consisting of EUV and UV imagers, spectrographs and coronagraphs, will give us our first comprehensive view of the outer solar atmosphere and corona, leading to a better understanding of the enigmatic coronal heating and solar wind acceleration processes. Finally, three experiments will complement the remote sensing observations by making in-situ measurements of the composition and energy of the solar wind and charged energetic particles. This volume contains detailed descriptions of all the twelve instruments on board SOHO. Also included are an overview paper and a description of the SOHO ground system, science operations and data products. The aim of these papers is to make the broader scientific community, and in particular potential guest investigators, aware of the scientific objectives and capabilities of the SOHO payload and to provide a reference document for the various instruments.

The Solar Optical Telescope ,1984

Magnetic Coupling between the Interior and Atmosphere of the Sun S.S. Hasan,R. J. Rutten,2010-03-10 Solar physics in India has a tradition that can be traced to the setting up of the Kodaikanal Observatory in 1899 when the Madras Observatory was relocated to a high altitude site with a view to initiate observations of the sun. This conference on Magnetic Coupling between the Interior and the Atmosphere of the Sun during 2-5 December 2008 was planned to coincide with centenary of the Evershed effect discovery at Kodaikanal in 1909. The aim of this meeting was to bring to a critical focus a comprehensive - derstanding of the important issues pertaining to solar magnetism with particular emphasis on the various MHD processes that operate in the solar atmosphere. The current status of magnetic eld measurements and their implications in the light of recent theories and numerical modeling that address the fundamental scales and processes in the highly magnetized turbulent plasma were reviewed during this meeting. The meeting was timely for the following reasons: Space

observations such as from SOHO and TRACE have provided a wealth of multiwavelength observations on processes occurring in regions of the atmosphere extending from the photosphere up to the outer corona. With the launch of Hinode and STEREO in 2006 and of SDO (Solar Dynamics Observatory) shortly, this conference provided a platform for in-depth discussions on new results from various space missions as well as a comparison with ground-based observing facilities such as the Swedish 1-m Solar Telescope. Using sophisticated image processing techniques, such telescopes routinely generate observations with a resolution better than 0.1 arcsec, thereby yielding more informative diagnostics for instance of the microstructure of ux tubes.

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