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Beyond the four centuries of sunspot observation and the five decades during which artificial satellites have monitored the Sun – that is to say for 99.99999% of the Sun's existence – our knowledge of solar history depends largely on analogy with kindred main sequence stars, on the outcome of various kinds of modelling, and on indirect measures of solar activity.

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Sep 06, 2020 solar history an introduction springerbriefs in astronomy Posted By Janet DaileyMedia Publishing TEXT ID 157e9a40 Online PDF Ebook Epub Library SOLAR HISTORY AN INTRODUCTION SPRINGERBRIEFS IN ASTRONOMY INTRODUCTION : #1 Solar History An Introduction Springerbriefs Publish By Janet Dailey, Solar History An Introduction Claudio Vita ...

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Solar History An Introduction Springerbriefs In Astronomy solar history an introduction springerbriefs beyond the four centuries of sunspot observation and the five decades during which artificial satellites have monitored the sun that is to say for 9999999 of the

Beyond the four centuries of sunspot observation and the five decades during which artificial satellites have monitored the Sun – that is to say for 99.99999% of the Sun’s existence – our knowledge of solar history depends largely on analogy with kindred main sequence stars, on the outcome of various kinds of modelling, and on indirect measures of solar activity. They include the analysis of lunar rocks and meteorites for evidence of solar flares and other components of the solar cosmic-ray (SCR) flux, and the measurement of cosmogenic isotopes in wood, stratified ice and marine sediments to evaluate changes in the galactic cosmic-ray (GCR) flux and thus infer changes in the sheltering magnetic fields of the solar wind. In addition, shifts in the global atmospheric circulation which appear to result from cyclic fluctuations in solar irradiance have left their mark in river sediments and in the isotopic composition of cave deposits. In this volume the results these sources have already produced have been summarised, paying special attention to those that reflect processes in different parts of the Sun’s interior and that display periodicities and trends which may enable us to forecast future large-scale environmental changes.

This book discusses the enhancement of efficiency in currently used solar cells. The authors have characterized different structures of the solar cell system to optimize system parameters, particularly the performance of the Copper-Tin-Sulphide solar cell using Solar Cell Capacitance Simulator (SCAPS). This research can help scientist to overcome the current limitations and build up new designs of the system with higher efficiency and greater functionality. The authors have investigated the corresponding samples from various viewpoints, including structural (crystallinity, composition and surface morphology), optical (UV–vis–near-IR transmittance/reflectance spectra) and electrical resistivity properties. Describes investigations on Cu<sub>2</sub>SnS<sub>3</sub> solar cells and prospective low cost absorber layer of thin film solar cells; Discusses the potential device structure of Copper-Tin-Sulphide based on thin film technologies; Explains solar cell structure optimization to perform a higher conversion efficiency of Copper-Tin-Sulphide.

The aim of this short text is simply to introduce a reader to this topic. It is intended for a global audience and rather than being restricted to potential energy law students of a particular country. It is also written for students of other disciplines such as geographers, social scientists and engineers. It should also be engaging to those in a variety of professional practices who want an accessible background to and overview of the subject. The first edition of Energy Law: An Introduction was a great success and this extended second edition is expected to be just as successful. It is used widely as a core text in energy law courses across the world and this second issue adds further discussion on important topics such as energy law principles and drivers. Further, it highlights issues of energy justice, a growing and an emergent topic which is also at the core of the energy law principles and the key drivers of why new energy law is formulated. The text aims to outline the principles and central logic behind energy law. Therefore, readers from across the world should be able to use it as a guide to thinking about energy law in their own countries. A variety of examples from many different countries are included in the text and while examples and comparisons are mainly from the EU and US, they represent good examples of more advanced and innovative energy law. For those readers who seek further or more in-depth knowledge, this text will only serve as an introduction. However, a key focus of the book is to direct the reader where they to look for further information and within the book there are suggested extra readings, the key recommended journals to read and other sources of information based on institutions who publish further material in this area. Overall this second edition of Energy Law: An Introduction aims to inspire students and others to contribute to try and improve energy law across the world and enable us all to contribute in our own small way to delivering a just and sustainable energy world for future generations.

This book describes in detail modern technologies for printed electronics, explaining how nanotechnology and modern printing technology are merging to revolutionize electronics fabrication of thin, lightweight, large and inexpensive products. Readers will benefit from the explanations of materials, devices and circuits used to design and implement the latest applications of printed electronics, such as thin flexible OLED displays, organic solar cells, OLED lighting, smart wallpaper, sensors, logic, memory and more.

Glass production is thought to date to ~2500 BC and had found numerous uses by the height of the Roman Empire. Yet the modern view of glass-based chemical apparatus (beakers, flasks, stills, etc.) was quite limited due to a lack of glass durability under rapid temperature changes and chemical attack. This “brief” gives an overview of the history and chemistry of glass technology from its origins in antiquity to its dramatic expansion in the 13th century, concluding with its impact on society in general, particularly its effect on chemical practices.

Communication satellites are a \$144 billion industry. Is there any space-based industry that could possibly beat that market? 'Solar Power Satellites' shows why and how the space satellite industry will soon begin expanding its market from relaying signals to Earth to generating energy in space and delivering it to the ground as electricity. In all industrialized nations, energy demand is growing exponentially. In the developing world, the need for energy is as basic as food and water. The Sun's energy is available everywhere, and it is non-polluting. As business plans demonstrate its technical feasibility, commercial potential, and environmental acceptability, every country on Earth will look to space for the power it needs.

This SpringerBrief summarizes the latest relevant research and discoveries that have been made in the area of ringed small bodies and small body taxonomy, including those that lay the groundwork for future discoveries. Before 2013, ringed small bodies were only theoretical. Thus, there are very limited publications available on this relatively new subfield of astronomy. With the introduction of the GAIA catalogue, star positions are now known better than ever before. Since rings are discovered through the use of starlight occultation, we could very well be looking at an explosion of discoveries of ringed small bodies in the near future. Each chapter is accompanied by exercises, and an end-of-book answer key is provided. As such, this brief will benefit students and researchers alike who wish to have a single document and quick access to the latest information on ringed small bodies and small body taxonomy.

This brief is a clear, concise description of the main techniques of time series analysis —stationary, autocorrelation, mutual information, fractal and multifractal analysis, chaos analysis, etc.— as they are applied to the influence of wind speed and solar radiation on the production of electrical energy from these renewable sources. The problem of implementing prediction models is addressed by using the embedding-phase-space approach: a powerful technique for the modeling of complex systems. Readers are also guided in applying the main machine learning techniques for classification of the patterns hidden in their time series and so will be able to perform statistical analyses that are not possible by using conventional techniques. The conceptual exposition avoids unnecessary mathematical details and focuses on concrete examples in order to ensure a better understanding of the proposed techniques. Results are well-illustrated by figures and tables.

This book is the first to undertake a gendered analysis of geoengineering and alternative energy sources. Are either of these technologies sufficiently attendant to gender issues? Do they incorporate feminist values as articulated by the renowned social philosopher Helen Longino, such as empirical adequacy, novelty, heterogeneity, complexity and applicability to human needs? The overarching argument in this book contends that, while mitigation strategies like solar and wind energy go much further to meet feminist objectives and virtues, geoengineering is not consistent with the values of justice as articulated in Longino's feminist approach to science. This book provides a novel, feminist argument in support of pursuing alternative energy in the place of geoengineering. It provides an invaluable contribution for academics and students working in the areas of gender, science and climate change as well as policy makers interested in innovative ways of taking up climate change mitigation and gender.

Amorphous Silicon/Crystalline Silicon Solar Cells deals with some typical properties of heterojunction solar cells, such as their history, the properties and the challenges of the cells, some important measurement tools, some simulation programs and a brief survey of the state of the art, aiming to provide an initial framework in this field and serve as a ready reference for all those interested in the subject. This book helps to “fill in the blanks” on heterojunction solar cells. Readers will receive a comprehensive overview of the principles, structures, processing techniques and the current developmental states of the devices. Prof. Dr. Wolfgang R. Fahrner is a professor at the University of Hagen, Germany and Nanchang University, China.

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