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Sustainable Material Solutions for Solar Energy Technologies: Processing Techniques and Applications provides an overview of challenges that must be addressed to efficiently utilize solar energy. The book explores novel materials and device architectures that have been developed to optimize energy conversion efficiencies and minimize environmental impacts. Advances in technologies for harnessing solar energy are extensively discussed, with topics including materials processing, device fabrication, sustainability of materials and manufacturing, and current state-of-the-art. Leading international experts discuss the applications, challenges, and future prospects of research in this increasingly vital field, providing a valuable resource for students and researchers working in this field. Explores the fundamentals of sustainable materials for solar energy applications, with in-depth discussions of the most promising material solutions for solar energy technologies: photocatalysis, photovoltaic, hydrogen production, harvesting and storage Discusses the environmental challenges to be overcome and importance of efficient materials utilization for clean energy Looks at design materials processing and optimization of device fabrication via metrics such as power-to-weight ratio, effectiveness at EOL compared to BOL, and life-cycle analysis

The information in this book can be used to teach advanced undergraduate or beginning graduate students the fundamental science and engineering of solar energy technologies. It is written in a way that will allow the reader to generalize the information presented in the book rather than present a compendium of facts. A concise and detailed review of solar energy and its interaction with materials is first given followed by discussion of photovoltaic devices and solar thermal technologies like the solar chimney, solar (power) tower, flat plate water heater, and electricity generation. This is a broad and detailed presentation of information that can be used by the reader to understand existing solar energy related technologies or to design their own.

As perhaps the most promising of all the renewable energy sources available today, solar energy is becoming increasingly important in the drive to achieve energy independence and climate balance. This new book is the masterwork from world-renowned expert Dr. Soteris Kalogirou, who has championed solar energy for decades. The book includes all areas of solar energy engineering, from the fundamentals to the highest level of current research. The author includes pivotal subjects such as solar collectors, solar water heating, solar space heating and cooling, industrial process heat, solar desalination, photovoltaics, solar thermal power systems, and modeling of solar systems, including the use of artificial intelligence systems in solar energy systems, modeling and performance prediction. *Written by one of the world's most renowned experts in solar energy *Covers the hottest new developments in solar technology, such as solar cooling and desalination *Packed with quick look up tables and schematic diagrams for the most commonly used systems today'

While solar is the fastest-growing energy source in the world, key concerns around solar power's inherent variability threaten to de-rail that scale-up. Currently, integration of intermittent solar resources into the grid creates added complication to load management, leading some utilities to reject it altogether, while other operators may penalize the producers via rate increases or force solar developers to include storage devices on-site to smooth out power delivery at the point of production. However these efforts at mitigation unfold, it is increasingly clear to parties on all sides that energy storage will be pivotally important in the drive to boost the integration of variable renewable sources into power infrastructures across the globe. Thoughtfully implemented storage technologies can reduce peak demand, improve day-to-day reliability, provide emergency power in case of interrupted generation, reduce consumer and utility costs by easing load balance challenges, decrease emissions, and increase the amount of distributed and renewable energy that makes it into the grid. While energy storage has long been an area of concern for scientists and engineers, there has been no comprehensive single text covering the storage methods available to solar power producers, which leaves a lamentable gap in the literature core to this important field. Solar Energy Storage aims to become the authoritative work on the topic, incorporating contributions from an internationally recognized group of top authors from both industry and academia, focused on providing information from underlying scientific fundamentals to practical applications, and emphasizing the latest technological developments driving this discipline forward. Expert contributing authors explain current and emergent storage technologies for solar, thermal, and photovoltaic applications. Sheds light on the economic status of solar storage facilities, including case studies of the particular challenges that solar energy systems present to remote locations. Includes information on: chemical storage mechanisms, mechanical storage tactics, pumped hydro, thermal storage, and storage strategies for systems of all sizes—from centralized utilities to distributed generation.

As part of the growing sustainable and renewable energy movement, the design, manufacture and use of photovoltaic devices is increasing in pace and frequency. The Handbook of Photovoltaics will be a 'benchmark' publication for those involved in the design, manufacture and use of these devices. The Handbook covers the principles of solar cell function, the raw materials, photovoltaic systems, standards, calibration, testing, economics and case studies. The editors have assembled a cast of internationally-respected contributors from industry and academia. The report is essential reading for: Physicists, electronic engineers, designers of systems, installers, architects, policy-makers relating to photovoltaics. A thorough update to the 'benchmark' publication from a cast of industrial and academic international experts ensures top quality information from multiple stakeholder perspectives Covers all things PV- from principles of solar cells and their raw materials, to the installation and design of full PV systems, including standards, testing, economics and environmental impacts Case studies, practical examples and reports on the latest advances take the new edition of this amazing resource beyond a vast collection of knowledge, into the realm of real world applications

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