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The composition and development of the markets and the role of PV in future energy systems are also considered. Finally, the discussion turns to the future structure of energy supplies, expected to comprise more distributed generation, and addresses synergies and competition from other carbon-free energy sources.

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**Introduction.** This book provides an up-to-date, rigorous analysis of the state of the art of solar photovoltaic (PV) generation. It focuses on the economic analysis of solar PV generation technologies as well as the policies that have been devised and implemented around the globe to support it. It provides the main theoretical tools for understanding the cost of these technologies, and discusses them from both a historical and comparative perspective with respect to other competing ...

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Photovoltaic Solar Energy Generation (Springer Series in Optical Sciences) 2005th Edition. by Adolf Goetzberger (Author), Volker Uwe Hoffmann (Author) 4.6 out of 5 stars 2 ratings. ISBN-13: 978-3540236764.

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Third Generation Photovoltaics - Advanced Solar Energy ...

The most common and efficient way to convert solar power into useful work is by photovoltaic generation. Photovoltaic cells are devices that convert radiative energy into electric energy. This chapter outlines the mechanism of photovoltaic conversion. The physical principles are introduced and described, and their implementation in real devices (cells and modules) is discussed with reference to the so called three solar cell generations, namely bulk cells, thin film cells, and cells based on ...

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This book examines strategies for generating hydrogen from sunlight and water in a sustainable way. Authoritative discussions are provided by experts on topics ranging from a description of the solar resource, electrolysis of water, solar concentrator pathway to low cost electrolytic hydrogen, thermal/photo hybrid splitting of water, photochemical water splitting, hydrogen generation at inorganic semiconductor-electrolyte interfaces, to photobiological schemes for producing hydrogen from water.

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Solar Hydrogen Generation - Toward a Renewable Energy ...

About the authors This book covers major technological advancements in, and evolving applications of, thermal and photovoltaic solar energy systems. Advances in technologies for harnessing solar energy are extensively discussed, with topics including the fabrication, compaction and optimization of energy grids, solar cells and panels.

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Advances in Solar Energy Research | Himanshu Tyagi | Springer

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Abstract. Policy evaluation in general, and the assessment of support for solar PV in particular, needs to take into account several elements, including assessment criteria, market failures, policy areas to address those failures, goals, targets, technologies, instruments, design elements and different administrative levels.

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