

Solar hydrogen energy systems: science and technology for the hydrogen economy

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Abstrak

This book presents the readers with the modeling, functioning and implementation of solar hydrogen energy systems, which efficiently combine different technologies to convert, store and use renewable energy. Sources like solar photovoltaic or wind, technologies like electrolysis, fuel cells, traditional and advanced hydrogen storage are discussed and evaluated together with system management and output performance. Examples are also given to show how these systems are capable of providing energy independence from fossil fuels in real life settings.