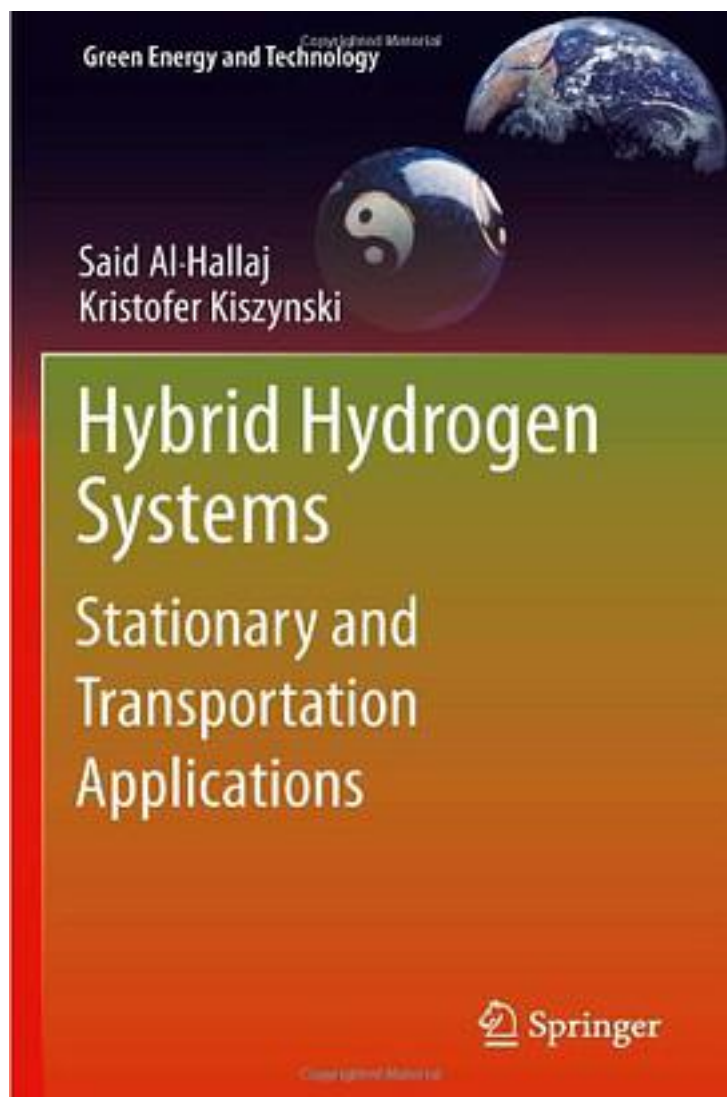


# Hybrid Hydrogen Systems



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Renewable energy technologies have been used on a small scale for many years now. Issues of intermittency and cost have prevented their wide-spread use and acceptance. At present, discussion and research is being aimed at moving the current global fossil fuels economy to one based on hydrogen as the universal energy carrier, with fuel cells as a means of converting this chemical energy to electrical energy. Hybrid Hydrogen Systems for Stationary and Transportation Applications presents an original and comprehensive approach to hybrid energy system optimization providing a much-needed systems approach to hydrogen energy applications. This textbook: a provides a comprehensive overview of the fundamentals of renewable power generation, conversion and storage including: wind, solar photovoltaic, biomass, battery technologies, fuel cells, hydrogen production and storage; a presents and discusses a unique system optimization approach to hybrid hydrogen energy system design that minimizes cost and maximizes reliability; a introduces the benefits of hydrogen as an energy carrier in the context of sustainability. This book will be a valuable tool for graduate and senior undergraduate students studying renewable energy and the design and optimisation of hydrogen energy systems as well as for the lecturers who teach these subjects. Hybrid Hydrogen Systems for Stationary and Transportation Applications will also be of interest to researchers and practitioners working with hydrogen and fuel cells as well as policy makers and advocates of renewable energy.

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