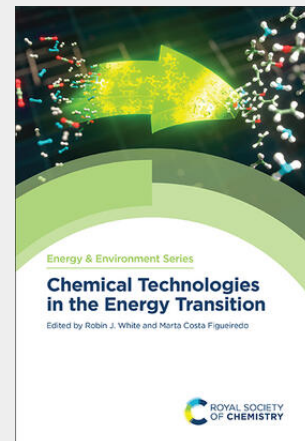


Chemical Technologies in the Energy Transition

The ongoing energy transition will require a number of emerging technological concepts (e.g. Power-to-X and Hydrogen Economy, etc.) which will ultimately combine renewable energy, novel chemical production/conversion processes and innovative, integrated devices/systems to produce sustainable platform molecules, fuels and materials. In this book, readers are introduced to selected concepts, challenges, steps forward and necessities relating to the technologies required to deepen the integration between the energy and chemical sectors. Selected key technologies to support this integration will be discussed, with particular emphasis on the catalytic systems and devices required to enable the transition including electrochemical cells, CO₂ hydrogenation and plasma-assisted processes. Several chapters will discuss evolving and emerging technologies and tools (e.g. LCA) that will be required to enable a green and successful energy transition. The book will be of interest to graduate students and researchers in renewable energy, catalysis, chemical engineering and chemistry, wishing to have an introduction to the topic and associated technologies.



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