

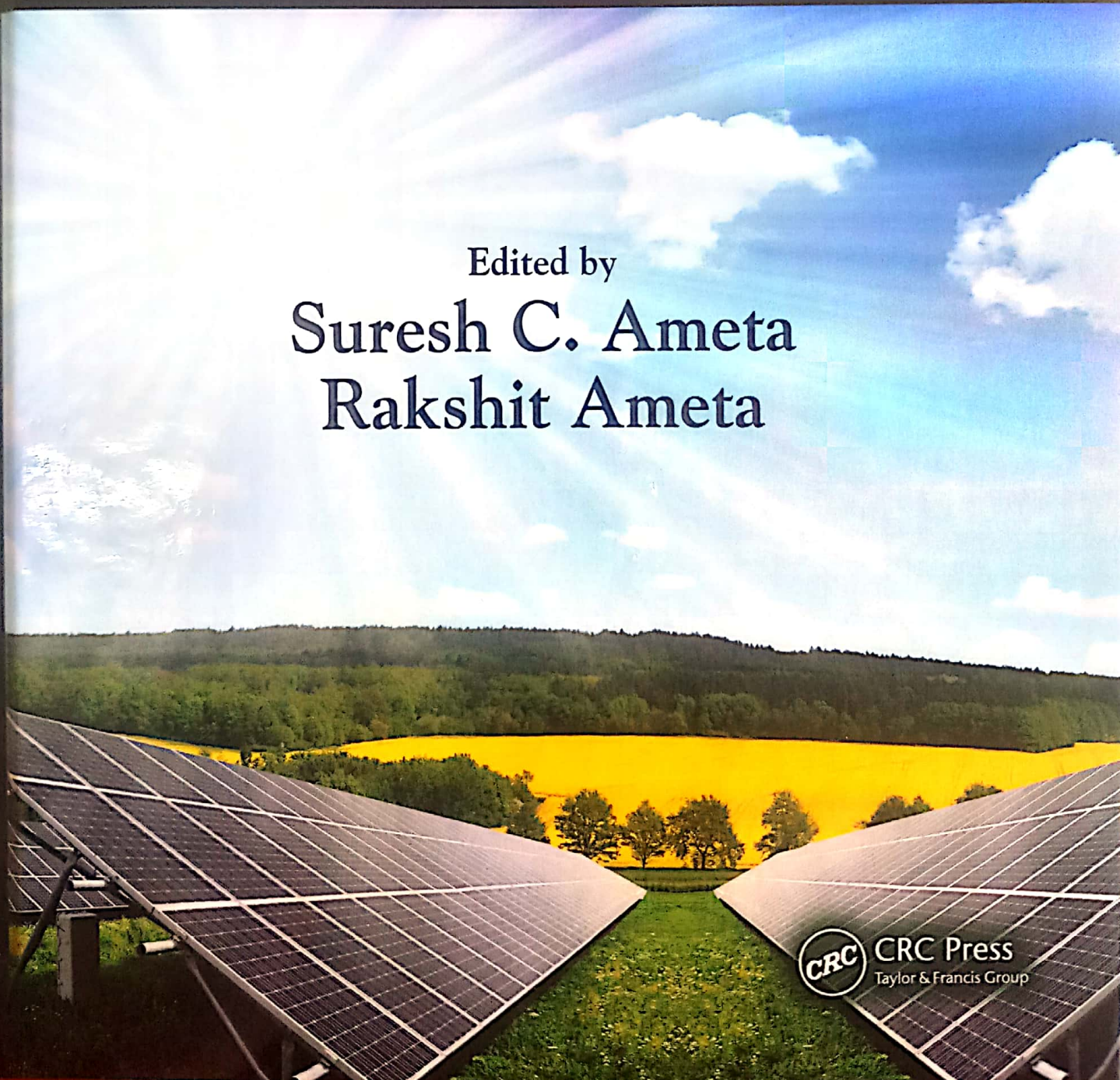
ELECTROCHEMICAL ENERGY STORAGE AND CONVERSION

SOLAR ENERGY CONVERSION AND STORAGE

Photochemical Modes

Edited by

Suresh C. Ameta
Rakshit Ameta



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SOLAR ENERGY CONVERSION AND STORAGE

"... provides an excellent overview of the historical and present literature concerning the different types and functionality of solar energy production cells. ... does a fantastic job introducing the variety of types of solar cells and their means of production of energy via photoelectrochemistry. ... A must have for anybody in the solar cells manufacturing industry."

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"... very interesting ... will appeal to researchers, students, and engineers in the field of renewable energy, specifically in photovoltaic systems."

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Solar Energy Conversion and Storage: Photochemical Modes showcases the latest advances in solar cell technology while offering valuable insight into the future of solar energy conversion and storage. Focusing on photochemical methods of converting and/or storing light energy in the form of electrical or chemical energy, the book:

- Describes various types of solar cells, including photovoltaic cells, photogalvanic cells, photoelectrochemical cells, and dye-sensitized solar cells
- Covers the photogeneration of hydrogen, photoreduction of carbon dioxide, and artificial/mimicking photosynthesis
- Discusses the generation of electricity from solar cells, as well as methods for storing solar energy in the form of chemical energy
- Highlights existing photochemical methods of solar energy conversion and storage
- Explores emerging trends such as the use of nanoparticles

Solar Energy Conversion and Storage: Photochemical Modes provides a comprehensive, state-of-the-art reference for graduate students, researchers, and engineers alike.



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