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Green Energy and Technology

**Materials Science : Nanotechnology**

Ledwani, Lalita, Sangwai, Jitendra S. (Eds.)

# Nanotechnology for Energy and Environmental Engineering

- Details eco-friendly techniques for nanoparticle synthesis and its application to energy and environmental processes
- Shares valuable insights into energy production, storage, utilization, and environmental interactions
- Promotes nanotechnological innovations in a green and sustainable manner

This book examines the potential applications of nanoscience and nanotechnology to promote eco-friendly processes and techniques for energy and environment sustainability. Covering various aspects of both the synthesis and applications of nanoparticles and nanofluids for energy and environmental engineering, its goal is to promote eco-friendly processes and techniques. Accordingly, the book elaborates on the development of reliable, economical, eco-friendly processes through advanced nanoscience and technological research and innovations. Gathering contributions by researchers actively engaged in various domains of nanoscience and technology, it addresses topics such as nanoparticle synthesis (both top-down and bottom-up approaches); applications of nanomaterials, nanosensors and plasma discharge in pollution control; environmental monitoring; agriculture; energy recovery; production enhancement; energy conservation and storage; surface modification of materials for energy storage; fuel cells; pollution mitigation; and CO<sub>2</sub> capture and sequestration. Given its scope, the book will be of interest to academics and researchers whose work involves nanotechnology or nanomaterials, especially as applied to energy and/or environmental sustainability engineering. Graduate students in the same areas will also find it a valuable resource.

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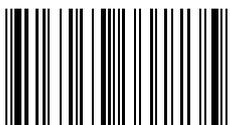
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