



Proton Exchange Membrane Fuel Cells (Electrochemical Energy Storage and Conversion)

Zhigang Qi

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Clean energy technologies are poised to play an important role in overcoming fossil fuel exhaustion and global pollution. Among these technologies, electrochemical energy storage and conversion are considered to be the most feasible, sustainable, and environmentally friendly. Proton exchange membrane (PEM) fuel cells are prime examples of electrochemical energy conversion technologies in action. Believed to be ideal sources of clean power, PEM fuel cells are replacing internal combustion and diesel engines in vehicles, as well as Pb-acid batteries and diesel generators in the emergency backup of telecommunications base stations and computer centers.

Written by an industry-leading scientist, **Proton Exchange Membrane Fuel Cells** explains the theoretical foundations of PEM fuel cells in relation to practical design and operation to not only help beginners grasp the essentials, but also guide industry professionals in tackling technical challenges. Useful to scientists, researchers, students, academics, and practicing engineers, the book covers the fundamentals, materials, components, modules, system architecture, applications, and current developmental status; offers real-world examples; and provides insight into advancing this sustainable clean technology.

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