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Encyclopedic guide to present and future battery technologies

Batteries: Present and Future Energy Storage Challenges is a comprehensive, two-volume handbook that offers an up-to-date and in-depth review of the battery technologies in use today. It also includes information on the most likely candidates that hold the potential for further enhanced energy and power densities. Part of the Encyclopedia of Electrochemistry, Batteries contains contributions from a renowned panel of international experts in the field.

Batteries are extremely commonplace in modern day life. They provide electrochemically stored energy in the form of electricity to automobiles, aircrafts, electronic devices and to smart power grids. Comprehensive in scope, Batteries covers information on well-established battery technologies such as 'charge-carrier'-based lead acid and lithium ion batteries. The contributors also explore current developments on new technologies such as lithium-sulfur and -oxygen, sodium ion, and full organic batteries. This important book:

- Includes information on the most recent and up-to-date information on battery technologies as well as thoughts on the future battery technologies
- Contains contributions from noted experts in the field
- Offers an accessible guide for those new to the field of electrochemical storage, and serves as a well-structured summary for those already active in this field

Written for electrochemists, physical chemists, and materials scientists, *Batteries* is an accessible compendium that offers a thorough review of the most relevant current battery technologies and explores the technology in the years to come.

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