

Co-authored by experts Ronald Legarski, Yash Patel, and Zoltan Csernus, this comprehensive book delves into lithium's journey from its discovery to its widespread use in electric ...

Past, Present and Future of Lithium-Ion Batteries: Can New Technologies Open up New Horizons? How LIB was Born? Can New Battery Technologies Open up Novel Horizons for LIB? 3. Fast Charging ...

One of the modern energy storage technologies with the highest commercial demand is lithium-ion batteries. They have a wide range of applications, from portable electronics to electric vehicles. ...

The different topics of the handbook provide a good knowledge base not only for those working daily on electrochemical energy storage, but also to scientists, engineers and students concerned in modern ...

This book examines the scientific and technical principles underpinning the major energy storage technologies, including lithium, redox flow, and regenerative batteries as well as bio ...

Li-ion Battery Management Systems are explored, focusing on types and topologies, functions, and selection. Battery design, assembly, deployment, troubleshooting and repair are also discussed, ...

Lithium-ion batteries have become the leading energy storage solution, powering applications from consumer electronics to electric vehicles and grid storage. This review highlights ...

We provide an in-depth overview of various nanotechnology-based solutions for LIBs, focusing on their impact on energy density, cycle life, safety, and environmental sustainability. ...

Lithium-Ion Batteries: Fundamentals and Applications offers a comprehensive treatment of the principles, background, design, production, and use of lithium-ion batteries. Based on a solid ...

Towards Next Generation Energy Storage Technologies offers a comprehensive overview of these novel technologies and their applications. Beginning with an introduction to the ...

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