

Lithium-ion batteries fundamentals and applications

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 foundation of long-term research work, this authoritative monograph: Introduces the underlying theory and history of lithium-ion batteries.

Chapter 1 describes the development of batteries used in electric drive vehicles. The terms used, the types of power batteries and their characteristics and functions, and the key technologies of a battery management system are also introduced.

A theoretical and technical guide to the electric vehicle lithium-ion battery management system. Using simulation technology, schematic diagrams and case studies, the basic concepts are described clearly and offer detailed analysis of battery charge and discharge control principles.

The handbook focuses on a complete outline of lithium-ion batteries. Just before starting with an exposition of the fundamentals of this system, the book gives a short explanation of the newest cell generation. The most important elements are described as negative / positive electrode materials, electrolytes, seals and separators.

The recent book Lithium-Ion Batter-ies: Fundamentals and Applications of-fers a comprehensive and systematic coverage of the operating principles, underlying theory, design, production, and use of Li-ion batteries. The text starts with a brief historical background of ...

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