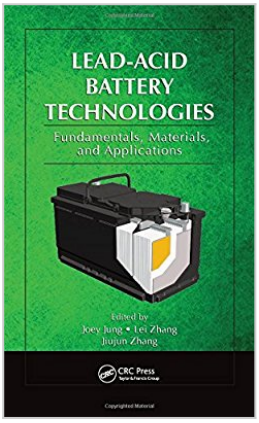

Lead-Acid Battery Technologies: Fundamentals, Materials, and Applications (Electrochemical Energy Storage and Conversion)

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Lead-Acid Battery Technologies: Fundamentals, Materials, and Applications offers a systematic and state-of-the-art overview of the materials, system design, and related issues for the development of lead-acid rechargeable battery technologies. Featuring contributions from leading scientists and engineers in industry and academia, this book:

- Describes the underlying science involved in the operation of lead-acid batteries
- Highlights advances in materials science and engineering for materials fabrication
- Delivers a detailed discussion of the mathematical modeling of lead-acid batteries
- Analyzes the integration of lead-acid batteries with other primary power systems
- Explores emerging applications such as electric bicycles and microhybrid vehicles

Lead-Acid Battery Technologies: Fundamentals, Materials, and Applications provides researchers, students, industrial professionals, and manufacturers with valuable insight into the latest theories, experimental methodologies, and research achievements in lead-acid battery technologies.

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Editorial Review

Review

"Written and edited by some of the world's most knowledgeable subject matter experts, readers of this book will be provided with a clear and comprehensive insight into the fundamentals, applications and most recent technological advances in materials science and engineering as they relate to lead acid batteries."
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"This book is a comprehensive review and also an excellent of up-to-date information on lead-acid battery technology. The editors and authors are a group of top lead-acid battery scientists and engineers with not only excellent academic research records, but also strong industrial expertise. The chapters consist of their knowledge, information, and insights on recent advances in lead-acid battery technology, broadly covering fundamental theories, experimental methodologies and research achievements."
?Hansan Liu, Senior Research Chemist, DuPont Central Research & Development

"This book is a must read for anyone working in the area of batteries. It covers the development and advancement of lead –acid rechargeable batteries particularly in recent years and their relevance to an increasing number of applications. The book provides excellent coverage of the advancements in material science, engineering design, fabrication and other areas, that have resulted in the importance of the lead-acid battery today in spite of being the oldest type of rechargeable battery."
?David P. Wilkinson, Department of Chemical and Biological Engineering, University of British Columbia

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