

Modern Batteries: An Introduction to Electrochemical Power Sources, 2nd Edition

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Based on the successful first edition, this book gives a general theoretical introduction to electrochemical power cells (excluding fuel cells) followed by a comprehensive treatment of the principle battery types - covering chemistry, fabrication characteristics and applications. There have been many changes in the field over the last decade and many new systems have been commercialised. Since the recent advent of battery powered consumer products (mobile phones, camcorders, lap-tops etc.) advanced power sources have become far more important. This text provides an up-to-date account of batteries which is accessible to anyone with a basic knowledge of chemistry and physics.

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Editorial Review

Review
As an introductory readable text for the non-specialist electrical engineer anxious to keep abreast of what chemists and physicists are developing in the laboratory it is highly recommended.,Electronics and Power - Institution of Electrical Engineers, This is a well written and reasonably comprehensive account of the electrochemistry, construction and performance of conventional and modern batteries which is nicely balanced between theory and practice.,Education in Chemistry,... there are no omissions... I can recommend the book to readers who wish to bring themselves quickly up to speed with the topic.,The Advanced Lead-Acid Battery Consortium,... a really excellent text - I could hardly put it down. It should be read by all electrical and electronics engineers.,Prof E Spooner, Durham University, UK,

From the Publisher
Written for the non-specialist, Modern Batteries requires only elementary knowledge of chemistry and physics, and is suitable for students and professionals alike as a learning tool and shelf reference. New material covers important developments in rechargeable cells as well as cells used to power vehicles. Environmental factors, such as the elimination of cadmium and mercury from many cells and waste disposal and recycling are also discussed. Contributors include: Kathryn Bullock, AT&T Bell Laboratories, Mesquite, Texas, and Jim Sudworth, Beta Research & Development, Derby, UK. Material was reviewed by Professor Karl Kordesh, Technical University Gratz, Germany.

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