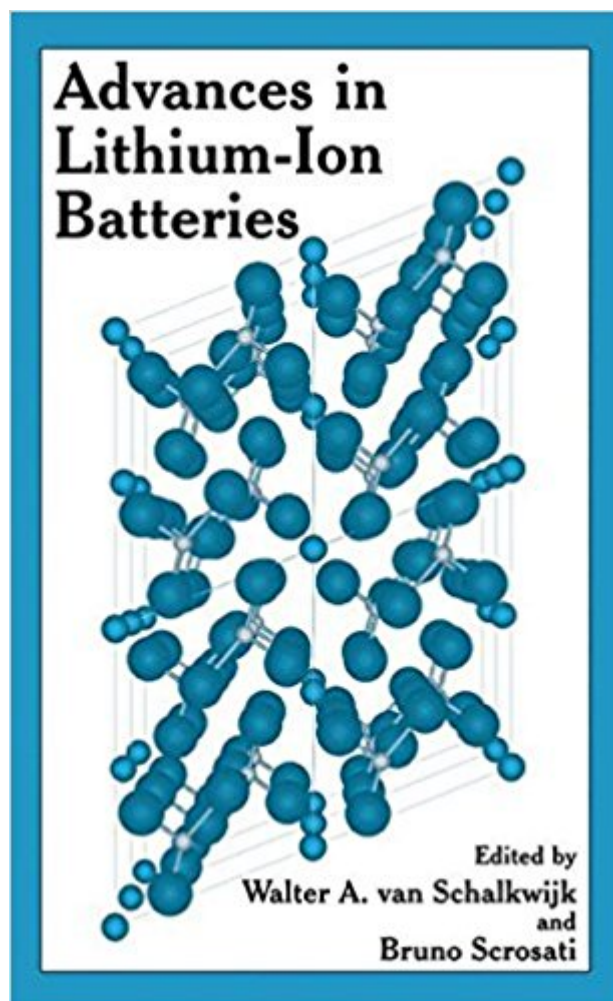


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# Advances In Lithium-Ion Batteries



## Synopsis

In the decade since the introduction of the first commercial lithium-ion battery research and development on virtually every aspect of the chemistry and engineering of these systems has proceeded at unprecedented levels. This book is a snapshot of the state-of-the-art and where the work is going in the near future. The book is intended not only for researchers, but also for engineers and users of lithium-ion batteries which are found in virtually every type of portable electronic product.

## Book Information

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## Customer Reviews

From the reviews:"The book does serve as a guide for future development for most aspects of the chemistry lithium-ion system and is definitely a valuable snapshot of the state-of-the-by-no-means-finished-art of lithium-ion batteries."(John B. Kerr, Lawrence Berkeley National Laboratory in Journal of the American Chemical Society, 125:12, 2003)

With any modern technology the pace of development is often such that a text on the topic is outdated very rapidly. This could have been said of van Schalkwijk and Scrosati's book when it was first published in 2002, and it is more so today. In that six year period, the market has also changed: the book's opening sentence is "Portable power applications continue to drive research and development of advanced battery systems." So, if you are looking for a book for information about batteries for today's hot topics of electric vehicles, hybrid electric vehicles or utility load leveling

using large scale batteries, this is not the book for you. The book's title is somewhat of a misnomer as there is very little directly related to batteries, perhaps less than fifty of the book's five hundred pages. If you are a chemist interested in lithium conduction or intercalation, then there is an abundance of interesting articles. Unfortunately, they are just a collection of articles as the editors seem to have failed to have set guidelines for writing style and the book lacks a clear thread connecting the chapters. These vary from the very scientific and hard to follow contributions to those more appropriate to a popular magazine, although it could be argued that the excellent chapters by Broussely and by Goodenough alone would justify the purchase price of this book. This is a nicely bound book that will grace the shelves of every research electrochemist who possesses a fascination with batteries. For the engineer requiring a battery to power his devices or inventions, his money can be more wisely spent elsewhere than on this offering.

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