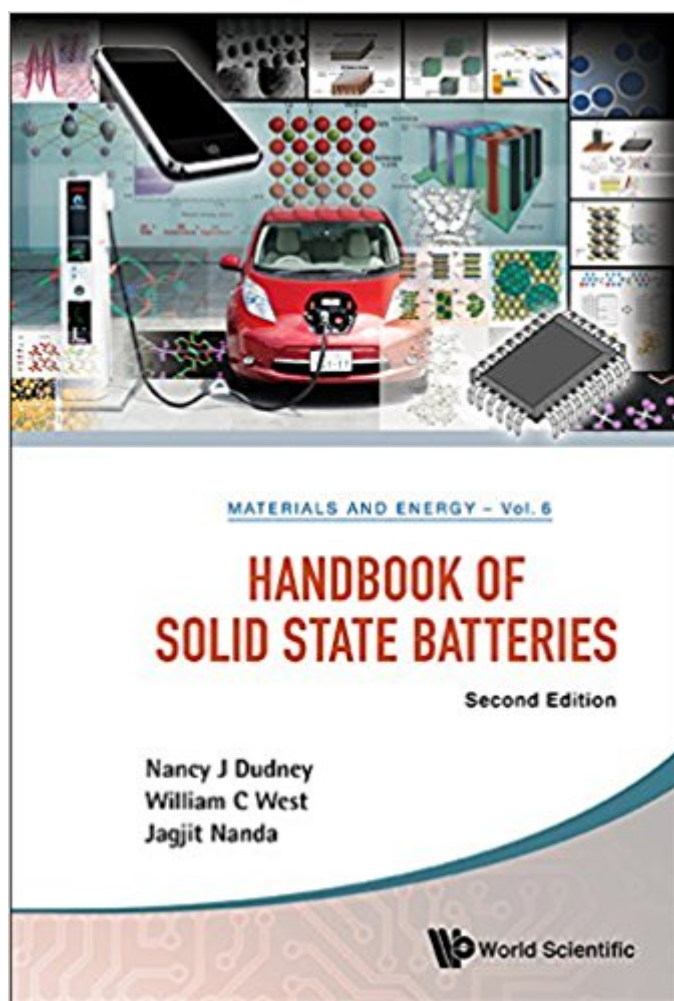


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Handbook Of Solid State Batteries 2nd Edition (Materials And Energy - Volume 6)



Synopsis

Solid-state batteries hold the promise of providing energy storage with high volumetric and gravimetric energy densities at high power densities, yet with far less safety issues relative to those associated with conventional liquid or gel-based lithium-ion batteries. Solid-state batteries are envisioned to be useful for a broad spectrum of energy storage applications, including powering automobiles and portable electronic devices, as well as stationary storage and load-leveling of renewably generated energy. This comprehensive handbook covers a wide range of topics related to solid-state batteries, including advanced enabling characterization techniques, fundamentals of solid-state systems, novel solid electrolyte systems, interfaces, cell-level studies, and three-dimensional architectures. It is directed at physicists, chemists, materials scientists, electrochemists, electrical engineers, battery technologists, and evaluators of present and future generations of power sources. This handbook serves as a reference text providing state-of-the-art reviews on solid-state battery technologies, as well as providing insights into likely future developments in the field. It is extensively annotated with comprehensive references useful to the student and practitioners in the field. Readership: Scientists, technologists, and students in the fields of electrochemistry, condensed matter physics, chemistry, and materials science.

Book Information

Series: Materials and Energy (Book 6)

Hardcover: 836 pages

Publisher: World Scientific Publishing Co; 2 edition (August 25, 2015)

Language: English

ISBN-10: 9814651893

ISBN-13: 978-9814651899

Product Dimensions: 5.9 x 1.9 x 9.1 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,719,725 in Books (See Top 100 in Books) #47 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State #1728

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