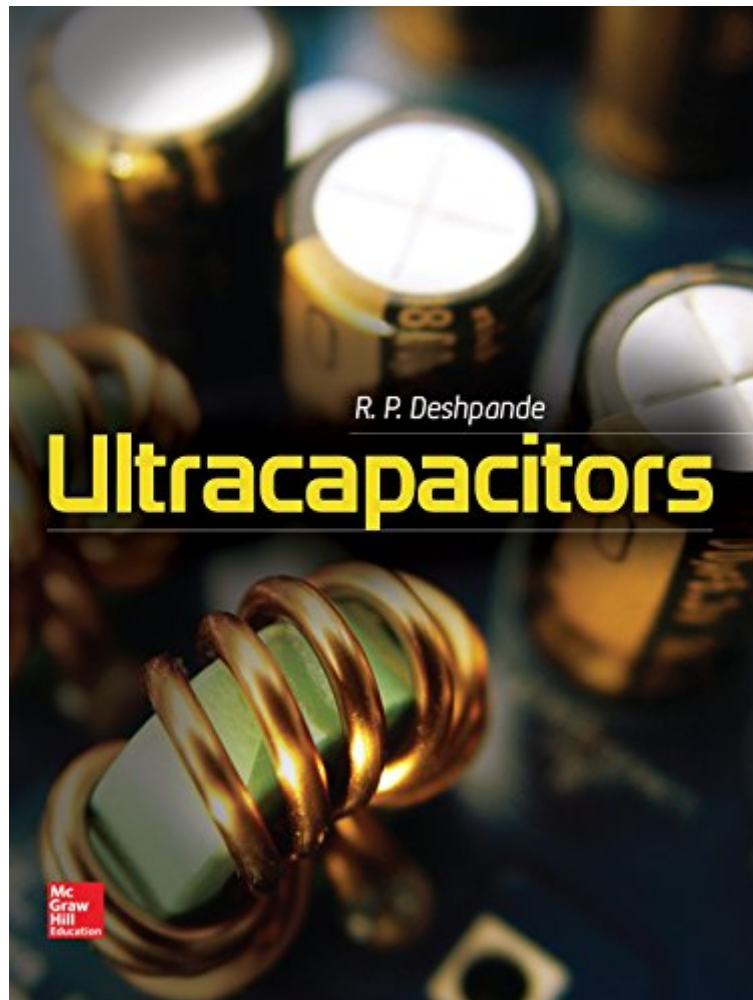


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# Ultracapacitors



## Synopsis

Cutting-edge coverage of ultracapacitors and their applications Written by a global expert in the field, this pioneering work discusses ultracapacitors and their applications for short-term electrical energy storage. The book describes different types of ultracapacitors and their classification based on energy storage mechanism and electrode combinations. The characteristics, reliability, cycle life, and properties of ultracapacitors, as well as their manufacturing techniques, are discussed in detail. The book examines various applications of ultracapacitors, including electronics, grid systems, automotive, public transportation, military, and other sectors. Emerging trends are also addressed in this ground-breaking resource. Ultracapacitors covers: Electrochemical capacitors Types of ultracapacitors Ultracapacitor characteristics Ultracapacitor charging Ultracapacitor materials Construction of EC capacitors Ultracapacitor cell balancing and modules Hybrid capacitors Li-ion capacitors Applications in the electronics industry Grid system applications Ultracapacitors in vehicles Bus and rail transport Ultrabattery: advanced battery power Military applications Water desalination Ultracapacitor manufacturers Pseudocapacitors Notes on using ultracapacitors Future scenarios

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## **Customer Reviews**

This is the second book that this author has written on the topic of capacitors, and does a fantastic job here as well. Ultracapacitors are likely to potentially change the way we use storage devices - hence this book is a must read for not only students of engineering, but also for industry professionals. The author's command over the topic is amazing, and he explains complex ideas in an easy to understand way, including a section on future trends within the field of ultracapacitors. As the reviews on the back of the book from well-known academics and industry leaders suggests, this book is a compelling must-have for practicing engineers, students and researchers.

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