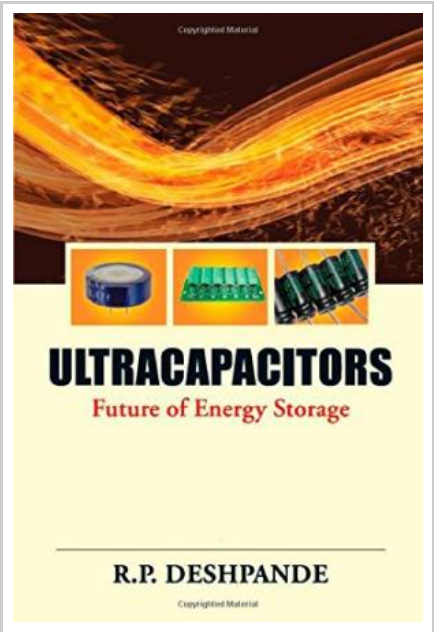

Ultracapacitors: Future of Energy Storage

By R.P. Deshpande

McGraw Hill Education, 2014. Softcover. Book Condition: New. First edition. Electrochemical Capacitors or `Ultracapacitors` have developed over the past few years as a new type of capacitor, whose main function is energy storage comparable to batteries. Currently being extensively used in electronic circuits, automobiles, grid energy storage, UPS, battery backup, and other new applications, ultracapacitors are set to change the way we perceive and use energy storage devices. This book provides a well-rounded account of this exciting technology covering all the aspects: from the basics of physics to the manufacturing processes. Focusing on the details of application in various fields, the book also provides rare insights on things to come. This book will serve as a ready reference for the engineering fraternity,students, researchers and all users of ultracapacitors. Contents: 1. ELECTROCHEMICAL CAPACITOR 2. TYPES OF ULTRACAPACITORS 3. ULTRACAPACITOR CHARACTERISTICS 4. ULTRACAPACITOR CHARGING 5. ULTRACAPACITOR MATERIALS 6. CONSTRUCTION OF EC CAPACITORS 7. ULTRACAPACITOR CELL BALANCING AND MODULES 8. HYBRID CAPACITORS 9. LI-ION CAPACITORS (LIC) 10. APPLICATIONS IN ELECTRONIC INDUSTRY 11. GRID SYSTEM APPLICATIONS 12. ULTRACAPACITORS IN VEHICLES 13. BUS AND RAIL TRANSPORT 14. ULTRABATTERY - ADVANCED BATTERY POWER 15. MILITARY APPLICATIONS 16. WATER DESALINATION 17. ULTRACAPACITOR MANUFACTURERS 18. PSEUDOCAPACITOR 19. NOTES...

Reviews

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