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Capacitors: Technology and Trends

By R.P. Deshpande

McGraw Hill Education, 2012. Hardcover. Book Condition: New. First edition. Capacitor technology is changing rapidly in sync with emerging applications. Capacitors are increasingly being used for energy storage in UPS systems, in cellular phones, cameras and automobiles. In power utility grids, capacitors continue to enhance transmission capacity and reduce losses. Capacitors: Technology and Trends provides the reader not only current usage and trends for its application in the electrical and electronic sectors but also the basics of capacitor physics and the evolution of raw materials and manufacturing processes. The book aims to serve as a ready reference to students, researchers, manufacturers and users of capacitors. TABLE OF CONTENTS: 1. Introduction to Capacitors 2. Properties of Dielectrics 3. Polypropylene and Polyester Film 4. Metallized Films 5. Types of Capacitors 6. Power Factor Correction Capacitors 7. Switching of Capacitors 8. Harmonics in Power Systems 9. Power Quality Management 10. Electrolytic Capacitors 11. Ceramic Capacitors 12. Mica Capacitors 13. Ultracapacitors: The Future of Energy Storage 14. Auto ignition and CDI capacitors 15. Electronic Grade Capacitors 16. Capacitors for RFI Suppression 17. Energy Storage and Pulse Capacitors 18. Application in Electronic Circuits 19. Capacitors for Power Electronics 20. Manufacture of Paper/Plastic Film Capacitors 21....



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