Design and Investment of High Voltage NanoDielectrics

Part of the Advances in Computer and Electrical Engineering Book Series

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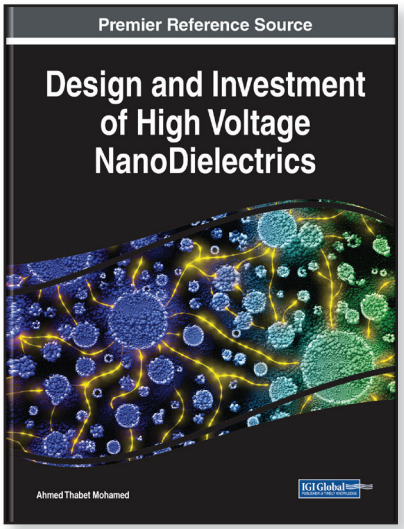

Description:

Nanotechnology has emerged as a trending research area as its industrial uses continue to multiply. Some specific areas that have benefited from the dynamic properties of nanomaterials are high voltage electronics and electrical engineering. Nanoparticles have created new avenues for engineers to explore within these fields; however, significant research on this subject is lacking.

Design and Investment of High Voltage NanoDielectrics is a collection of innovative research on the methods and application of nanoparticles in high voltage insulations and dielectric properties. This book discusses the wide array of uses nanoparticles have within high voltage electrics engineering and the diverse polymeric properties that nanomaterials help make prevalent. While highlighting topics including electrical degradation, magnetic materials, and fundamental polymers, this book is ideally designed for researchers, engineers, industry professionals, practitioners, scientists, managers, manufacturers, analysts, students, and educators seeking current research on the dielectric properties of modern nanocomposite materials.

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Hardcover: $195.00 **Softcover:** $150.00 **E-Book:** $195.00 **Hardcover + E-Book:** $235.00

Topics Covered:

- Composite Materials
- Computational Physics
- Dielectrics
- Electrical Degradation
- Electronic Materials
- Fundamental Polymers
- High Voltage Engineering
- Magnetic Materials
- Nanoparticles
- Prediction Models
- Space Charge

Subject: Science and Engineering

Classification: Authored Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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