Polymer Composites for Electrical Engineering
Xingyi Huang (Editor), Toshikatsu Tanaka (Editor)

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DESCRIPTION

Explore the diverse electrical engineering application of polymer composite materials with this in-depth collection edited by leaders in the field

Polymer Composites for Electrical Engineering delivers a comprehensive exploration of the fundamental principles, state-of-the-art research, and future challenges of polymer composites. Written from the perspective of electrical engineering applications, like electrical and thermal energy storage, high temperature applications, fire retardance, power cables, electric stress control, and others, the book covers all major application branches of these widely used materials.

Rather than focus on polymer composite materials themselves, the distinguished editors have chosen to collect contributions from industry leaders in the area of real and practical electrical engineering applications of polymer composites. The book’s relevance will only increase as advanced polymer composites receive more attention and interest in the area of advanced electronic devices and electric power equipment.

Unique amongst its peers, Polymer Composites for Electrical Engineering offers readers a collection of practical and insightful materials that will be of great interest to both academic and industrial audiences. Those resources include:

• A comprehensive discussion of glass fiber reinforced polymer composites for power equipment, including GIS, bushing, transformers, and more)
• Explorations of polymer composites for capacitors, outdoor insulation, electric stress control, power cable insulation, electrical and thermal energy storage, and high temperature applications

• A treatment of semi-conductive polymer composites for power cables

• In-depth analysis of fire-retardant polymer composites for electrical engineering

• An examination of polymer composite conductors

Perfect for postgraduate students and researchers working in the fields of electrical, electronic, and polymer engineering, *Polymer Composites for Electrical Engineering* will also earn a place in the libraries of those working in the areas of composite materials, energy science and technology, and nanotechnology.

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**ABOUT THE AUTHOR**

**Xingyi Huang, PhD,** is Professor and Deputy Director of the Shanghai Key Laboratory of Electrical Insulation and Thermal Aging at the Shanghai Jiao Tong University in China. He is an Associate Editor of IEEE Transactions on Dielectric and Electrical Insulation, as well as an Associate Editor of IEEE High Voltage.

**Toshikatsu Tanaka, PhD,** is Chairman of the IEEJ Committee on New Dielectric Materials. He is Vice President of the Central Research Institute of the Electric Power Industry and is a recipient of the Japanese Ministry of Science and Technology Prize.

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