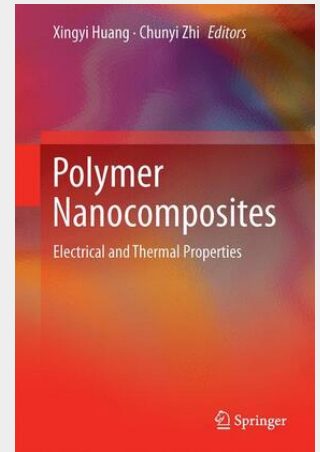


Polymer Nanocomposites

Electrical and Thermal Properties

This book focuses on the fundamental principles and recent progress in the field of electrical and thermal properties of polymer nanocomposites. The physical and chemical natures determining the electrical and thermal properties of polymer nanocomposites are discussed in detail. The authors describe the range of traditional and emerging polymer nanocomposites from nanoparticle and polymer composites to novel nanostructure based polymer nanocomposites. They include novel properties and potential applications, such as high-k, low-k, high thermal conductivity, antistatic, high voltage insulation, electric stress control, and thermal energy conversion among others.



106,99 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319282367

Medium: Buch

ISBN: 978-3-319-28236-7

Verlag: Springer International
Publishing

Erscheinungstermin: 13.05.2016

Sprache(n): Englisch

Auflage: 1. Auflage 2016

Produktform: Gebunden

Gewicht: 6623 g

Seiten: 351

Format (B x H): 160 x 241 mm

