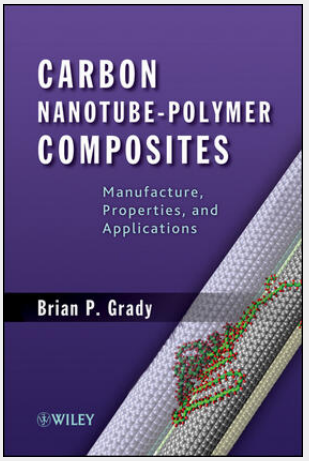
Grady

Nanotube-Polymer



Providing a much-needed and thorough overview of polymers in the carbon nanotubes (CNTs), Carbon Nanotube-Polymer Composites provides a fundamental understanding of achievements in the field and highlights key studies that have had significant impact. The author summarizes widely scattered information (8,000 journal papers) into one accessible resource, complemented by references to key papers for readers wanting more in-depth information. The text comprehensively examines CNT-polymers from synthesis to manufacturing and applications, making this a valuable tool for polymer scientists and engineers, chemists, physicists, and materials scientists.

The accessible compendium of polymers in carbon nanotubes (CNTs) Carbon nanotubes (CNTs)-extremely thin tubes only a few nanometers in diameter but able to attain lengths thousands of times greater-are prime candidates for use in the development of polymer composite materials. Bringing together thousands of disparate research works, Carbon Nanotube-Polymer Composites: Manufacture, Properties, and Applications covers CNT-polymers from synthesis to potential applications, presenting the basic science and engineering of this dynamic and complex area in an accessible, readable way. Designed to be of use to polymer scientists, engineers, chemists, physicists, and materials scientists, the book covers carbon nanotube fundamentals to help polymer experts understand CNTs, and polymer physics to help those in the CNT field, making it an invaluable resource for anyone working with CNT-polymer composites. Detailed chapters describe the mechanical, rheological, electrical, and thermal properties of carbon nanotube-polymer composites. Including a glossary that defines key terms, Carbon Nanotube-Polymer Composites is essential reading for anyone looking to gain a fundamental understanding of CNTs and polymers, as well as potential and current applications, including electronics (shielding and transparent electrodes), flame retardants, and electromechanics (sensors and actuators), and their challenges.

155,50 €
145,33 € (zzgl. MwSt.)

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