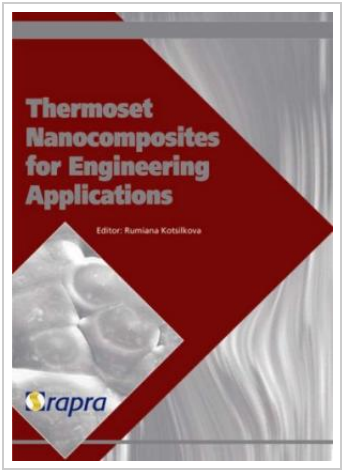

Thermoset Nanocomposites for Engineering Applications (Hardback)

By R. Kotsilkova

Smithers Rapra Technology, United Kingdom, 2007. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Thermoset nanocomposites are complex hybrid materials which integrate nanoparticles with polymers to produce a novel nanostructure, with extraordinary properties. Organic/inorganic hybrids are some of the most challenging nanostructures investigated to date. What differentiates nanocomposite materials from classical composites is the degree of control of fabrication, processing and performance, that can be achieved down to a very small scale. Thermoset polymer nanocomposites have received less interest in their scientific development and engineering applications than thermoplastic nanocomposites. However, some of these materials may be relatively easy to bring into production. The understanding of characteristics of the interphase region and the estimation of technology-structure-property relationships are the current research frontier in nanocomposite materials. This book summarises the experimental results of work on thermoset nanocomposites obtained from the collaboration of three research groups from Bulgaria, Greece and Italy, and analyses some of results reported in the literature. The engineering resin nanocomposites are restricted to the most commonly used thermosets, such as epoxy resins, unsaturated polyesters, acrylic resins, and so on. Various nanoparticles have been found to be useful for nanocomposite preparation with thermosetting polymers, along...

Reviews

The publication is easy in read safer to comprehend. It is actually rally intriguing throgh studying time. I am easily will get a delight of looking at a created publication.

-- ***Claud Feest***

This ebook is amazing. I actually have read and i also am certain that i will going to read once more again down the road. I found out this pdf from my dad and i advised this book to discover.

-- ***Isaiah Swaniawski***