



## Biobased Smart Polyurethane Nanocomposites: From Synthesis to Applications (Hardback)

By Niranganj Karak

Royal Society Of Chemistry, United Kingdom, 2017. Hardback. Condition: New. Language: English . Brand New Book. Polyurethane nanocomposites present an attractive and sustainable way for designing smart materials that can be used in packaging, health and energy applications. Biobased Smart Polyurethane Nanocomposites brings together the most recent research in the field from the basic concepts through to their applications. Special emphasis is given to sustainable biodegradable polyurethane nanocomposites with hyperbranched architecture. The book introduces biobased polyurethanes and the nanomaterials that can be used as nanocomposites followed by the resulting polyurethane nanocomposites. The second part then explores important applications in paints and surface coatings, shape memory, self-healing, self-cleaning, biomaterials and packaging materials. Written by a leading expert on polyurethane nanocomposites, the book is a great introduction to this smart material and its applications.



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