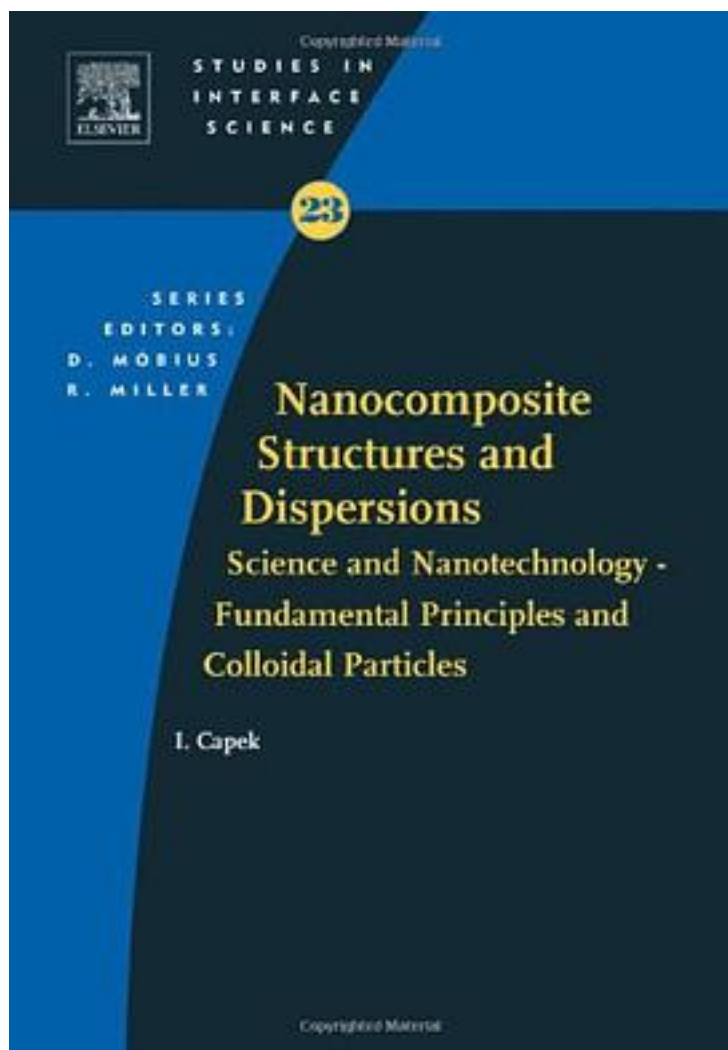


Nanocomposite Structures and Dispersions



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"Nanocomposite Structures and Dispersions" is concerned with the chemistry of the reaction approaches by which polymer and metal particles are synthesized. Although, the scope of this volume is focused on metal particles, the basic knowledge of polymer colloids preparation is presented. Therefore, this book would serve as a general introduction to people just entering the field and for the experts seeking for the information in other sub-fields. Dealing with nanoscience and nanotechnology from the viewpoint of a chemist, therefore the book describes in detail terms, definitions, theories, experiments, and techniques dealing with synthesis of polymer and metal particles. "Nanocomposite Structures and Dispersions" is focused on both the organic (synthetic and natural) and inorganic materials, and their hybrids. The aim is to summarize the fundamentals and mechanistic approaches in preparation and characterization of colloidal nanoparticles and dispersions so as to provide the readers a systematic and coherent picture of the field. The book introduces the reader the interesting field of nanoscience based on polymer and metal colloidal nanoparticles. It places a special emphasis on polymer, inorganic and metal nanomaterials classified as nanoparticles, nanocrystals, nanorods, nanotubes, nanobelts, etc. A variety of synthetic approaches is described including emulsion, miniemulsion and microemulsion approaches, homogeneous and heterogeneous nucleation approaches under mild and high temperatures. It is focused on both the organic (synthetic and natural) and inorganic materials, and their hybrids.

作者介绍:

目录:

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