



# **Nanocrystalline Materials: Their Synthesis-Structure-Property Relationships and Applications**

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Nanocrystalline materials with new functionalities show great promise for use in industrial applications - such as reinforcing fillers in novel polymer composites - and substantial progress has been made in the past decade in their synthesis and processing. However, there are several issues that need to be addressed to develop these materials further. Among these, exploration of novel methods for the large-scale synthesis of low cost self-assembled nanostructures is a challenging research topic. Accordingly, there has emerged a demand to study their synthesis-structure-property relationships in order to understand the fundamental concepts underlying the observed physical and mechanical properties.

With contributions from leading experts, this book describes the fundamental theories and concepts that illustrate the complexity of the problem in developing novel nanocrystalline materials. It reviews the most up-to-date progress in the synthesis, microstructural characterization, physical and mechanical behavior, and application of nanomaterials.

\* Investigates the synthesis, characterisation and properties of a huge variety of nanocrystalline materials, and their applications in industry

\* Keeps the prominent challenges in nanomaterials fabrication at the forefront while offering the most up-to-date scientific findings

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