



Nanoparticles from the Gasphase: Formation, Structure, Properties (NanoScience and Technology)

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Gasphase synthesis of nanoparticles and nanostructured materials offers high chemical purity and crystalline quality as well as scalability up to industrial quantities. It is therefore highly attractive for both basic and applied science. This book gives a broad and coherent overview of the complete production and value chain from nanoparticle formation to integration into products and devices. Written by experts in the field – with backgrounds in electrical engineering, experimental and theoretical physics, materials science, and chemical engineering – the book offers a deep insight into the fabrication, characterization and application of nanoparticles from the gasphase. The first part of the book, “Formation”, covers chemical and growth kinetics, in-situ diagnostics, numerical simulation, process development and material deposition. In the second section, the reader is introduced to the structure and dynamics that lead to functional nanoscale systems and materials. The third section, “Properties and Applications”, provides a detailed discussion of the optical, electronic, magnetic and chemical characteristics of nanostructures and demonstrates how these can be used in tailored materials and devices.

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