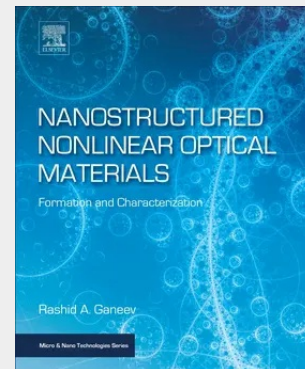


Nanostructured Nonlinear Optical Materials: Formation and Characterization

Nanostructured Nonlinear Optical Materials: Formation and Fabrication covers the analysis of the formation, characterization and optical nonlinearities of various nanostructures using different methods. It addresses many areas of research in the field, including the modification of the surfaces of materials for the formation of various nanostructures, transmission electron microscopy and time-of-flight mass spectroscopy studies of ablated bulk and nanoparticle targets, the low-order nonlinearities of metal and semiconductor nanoparticles, the nonlinear refraction and nonlinear absorption of carbon-contained nanoparticles, and low- and high-order harmonic generation in nanoparticle-contained plasmas, amongst other topics. The book is an essential reference for all nanomaterials researchers in the fields of photonics, materials, physics, chemistry and nanotechnology.

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