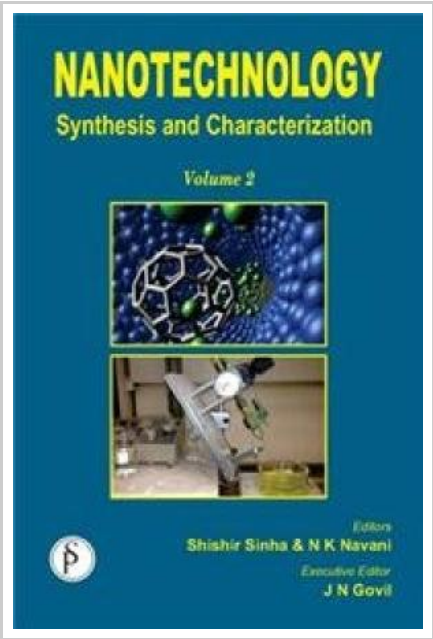

Nanotechnology: Synthesis and Characterization (Volume 2)

By JN Govil, Naveen Kumar Navani and Shishir Sinha

Studium Press LLC / Researchco Books & Periodicals Pvt. Ltd., Houston, Texas, 2013. Hardcover. Book Condition: New. Over the past decade, synthesis of nanomaterials has been extensively studied not only due to their captivating properties and theoretical studies but also for their potential in a broad range of applications. Most of the nanotechnology products are manufactured from atoms, however, interestingly; the properties of those products depend on how those atoms are arranged. With the help of nanotechnology one can congregate the elementary building blocks of nature in a way that may be completely unnatural or synthesising something closer to the existing structures. The strategies engaged in fabricating the nanomaterials can be grouped into two categories: ?top-down? and ?bottom-up? This volume explores a range of methods adopted for the synthesis of different nanomaterials, various factors affecting the stability, methods to improve its synthesis characterization and applications. The volume beings with nanocomposite particle synthesis with enhanced chemical and physical properties, one step sol-gel synthesis of porous inorganic glasses, novel methods for protein nanoparticles synthesis in organic solvents, nanofluids synthesis with enhanced thermophysical properties for thermal engineering applications, synthesis and fictionalization of single and multiwalled carbon nanotubes for application in biomedical field, synthesis...

Reviews

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