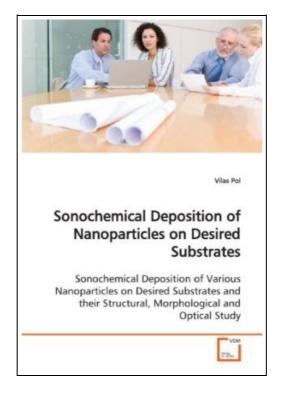
# Sonochemical Deposition of Nanoparticles on Desired Substrates



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#### Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf. (Alfreda Bradtke)

#### SONOCHEMICAL DEPOSITION OF NANOPARTICLES ON DESIRED SUBSTRATES



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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Sonochemical Deposition of Various Nanoparticles on Desired Substrates and their Structural, Morphological and Optical Study | Sonochemistry is the research area in which molecules undergo chemical reaction due to the application of powerful ultrasound radiation (20 KHz to 1 MHz). The employed substrates were silica spheres, carbon spherules, carbon nanotubes, LiMn2O4 spinel and titania particles, provides an alternative means for trapping the nanoclusters on thier surfaces. Cavity collapse near an extended solid surface becomes non-spherical, drives high-speed jets of liquid into the surface, and creates shockwave damage to the surface. The nanoparticle-substrate collisions are capable of inducing striking changes in surface morphology, composition, and reactivity. The coating nanoparticles were metals (e.g. Au, Ag, Sn, etc.), oxides (e.g. MgO), rare earth oxides (e.g. Eu2O3), and highly magnetic (e.g. air-stable Fe), confirming that Sonochemistry can be a general method for the uniform deposition of desired nanomaterials. The formed core-shell materials are characterized by advanced morphological, structural, compositional techniques and the optical and magnetic properties are studied. | Format: Paperback | Language/Sprache: english | 84 pp.



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