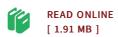




Electrical Properties of Semiconductor Nanoparticles

By Suresh Sagadevan

LAP Lambert Academic Publishing Jun 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - Currently, semiconductor nanomaterials and devices are still in the research stage, but they are promising for applications in many fields, such as solar cells, nanoscale electronic devices, light-emitting nanodevices, laser technology, waveguide, chemicals and biosensors. Further development of nanotechnology will certainly lead to significant breakthroughs in the semiconductor industry. The book describes the most important II VI semiconductors with applications in solar cells, optoelectronics and electronic devices. CdS, CdSe, ZnS and TiO2 nanoparticles were synthesized by the wet chemical method. The crystal structure and grain size of the particles were determined by X-ray diffraction (XRD). The dielectric properties of nanoparticles were studied in the frequency range of 50Hz-5MHz at different temperatures. Further, electronic properties like valence electron plasma energy, average energy gap or Penn gap, Fermi energy and electronic polarizability of the nanoparticleswere calculated. 88 pp. Englisch.



Reviews

Very helpful to any or all category of folks. It is writter in simple phrases rather than difficult to understand. Its been developed in an exceptionally simple way and is particularly just after i finished reading this pdf in which basically transformed me, modify the way in my opinion.

-- Hank Runte

This publication is amazing. This can be for all who statte that there had not been a worth reading through. I realized this publication from my i and dad encouraged this ebook to find out.

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