



Thermoelectric Power in Nanostructured Materials

By Kamakhya Prasad Ghatak

Springer-Verlag GmbH Jan 2011, 2011. Buch. Book Condition: Neu. 243x167x33 mm. Neuware - The merging of the concept of introduction of asymmetry of the wave vector space of the charge carriers in semiconductors with the modern techniques of fabricating nanostructured materials such as MBE, MOCVD, and FLL in one, two, and three dimensions (such as ultrathin films, nanopillars, inversion and accumulation layers, quantum well superlattices, carbon nanotubes, quantum wires, quantum wire superlattices, quantum dots, magnetoinversion and accumulation layers, quantum dot superlattices, etc.) spawns not only useful quantum effect devices but also unearths new concepts in the realm of nanostructured materials science and related disciplines. It is worth remarking that these semiconductor nanostructures occupy a paramount position in the entire arena of low-dimensional science and technology by their own right and find extensive applications in quantum registers, resonant tunneling diodes and transistors, quantum switches, quantum sensors, quantum logic gates, heterojunction field-effect transistors, quantum well and quantum wire transistors, high-speed digital networks, high-frequency microwave circuits, quantum cascade lasers, high-resolution terahertz spectroscopy, superlattice photo-oscillator, advanced integrated circuits, superlattice photocathodes, thermoelectric devices, superlattice coolers, thin film transistors, intermediate-band solar cells, micro-optical systems, high-performance infrared imaging systems, bandpass filters, thermal sensors, optical modulators....

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