



Nanotechnology: Nanosensing (Volume 10)

By JN Govil, Naveen Kumar Navani and Shishir Sinha

Studium Press LLC / Researchco Books & Periodicals Pvt. Ltd., Houston, Texas, 2013. Hardcover. Book Condition: New. This volume presents an overview of recent development, operation, and diverse applications of nanomaterials as chemical sensors, biosensors, and wireless sensing networks for myriads of ligands driven by the ability to create significantly smaller, more sensitive, faster-responding, and less costly sensors which either negate or complement the use of cumbersome and less feasible conventional sensing system. Research and development in the nanosensor domain is driven by specific application requirements and social concerns. Nanosensors validates its eminence in varied field starting from electronics and security, aerospace and defence, healthcare, chemical materials and food technologies. This volume is a meticulous amalgamation of positive and negative aspects of nanomaterials to be used, electro and chemical nanobiosensors, pollutant and environmental sensors. This volume discusses applications of semiconductor nanomaterials, aptamer nanostructures, signalling molecular switches, nanoparticle based optical determination of xenobiotics and pathogens as clinical diagnostic equipment, DNA sequencing and DNA based biocatalysis technology, Chemical and gas detection systems, nuclear radiation and humidity sensing system and biosynthesis of efficient, effective and low-cost nanomaterials. This volume will surely be a very helpful and effective guide for the upcoming researchers and...



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