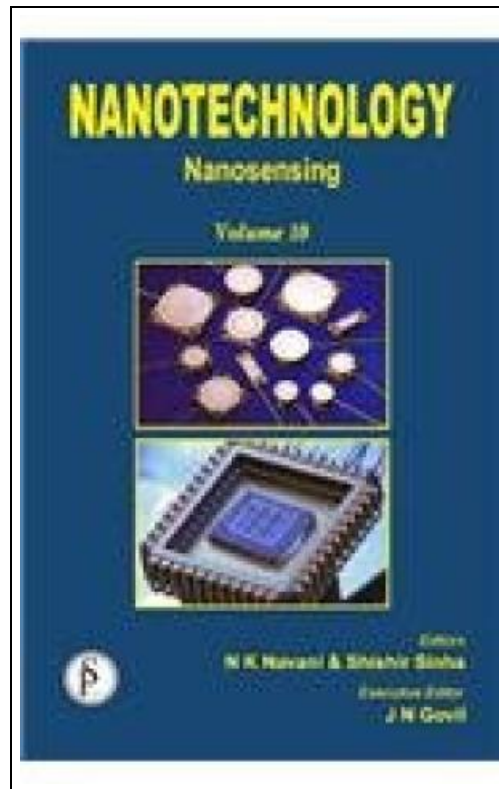


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Reviews

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(Taylor Medhurst)

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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 students of biology, engineering and medicine to not only gain precise and prudent insight about nanosensing but also help to iron out several technological difficulties and issues regarding production and technology development of nanosensors. TABLE OF CONTENTS: One-Dimensional Nanostructure Based Chemiresistor Sensor (INDIA); Chemical Sensors Application Using Semiconductor Nanomaterials (KINGDOM OF SAUDI ARABIA); Aptamer Nanostructures as Signaling Molecular Switches in Electrochemical Biosensing (JAPAN); Nanoparticles Based Optical Detection of Xenobiotics and Small Molecules (INDIA); Aptamer-Nanoparticles Based Nanobiosensor for Bacterial Detection (INDIA); Aptasensors for Specific Sensing and Detection (IRAN, USA); DNA-Based Bionanocatalysts (USA); Gas Sensor Applications Using Atomic Nanoclusters (UNITED ARAB EMIRATES);...



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