



# **Nanosensors: Theory and Applications in Industry, Healthcare and Defense**

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# Nanosensors: Theory and Applications in Industry, Healthcare and Defense

## Nanosensors: Theory and Applications in Industry, Healthcare and Defense

Nanosensors are rapidly becoming a technology of choice across diverse fields. They offer effective and affordable options for detecting and measuring chemical and physical properties in difficult-to-reach biological and industrial systems operating at the nanoscale. However, with nanosensor development occurring in so many fields, it has become difficult to stay current with the latest research and emerging applications.

**NANOSENSORS: Theory and Applications in Industry, Healthcare and Defense** answers the need for a comprehensive resource on advances in this area. Dr. Teik-Cheng Lim, a highly regarded expert in novel materials and nanosensors crosses disciplines to bring together 17 pioneering experts who address the fundamental principles of nanosensors and their diverse applications. Serving to stimulate a convergence of information across otherwise isolated disciplines, this volume covers —

- Carbon-nanotube (CNT)-based sensors and their uses with a range of analytes, including gaseous molecules, organic charge transfer complexes, proteins, DNA, and antibodies
- CNT-based fluidic sensors for studying the shear stress of blood vessels and cells, useful in diagnosing many diseases
- Nanomechanical cantilever sensors, which offer low cost, fast response, and high specificity without the need for pre-analysis labeling
- Layer-by-layer (LbL) self-assembly and the Langmuir–Blodgett (LB) technique, highly efficient approaches when working with expensive biological compounds
- Fluorescence resonance energy for intracellular glucose monitoring
- Noble metal nanoparticles with their unique optical properties as colorimetric probes for biological analysis
- Optical capillary sensors as an affordable tool for classifying liquid samples
- Nanosensors in bioinformatics and their role in a much needed systems approach to healthcare

With so much activity occurring in so many fields, further progress in the area of nanosensors is certain. Through the convergence of findings across many fields, as exemplified by this book, that progress can be accelerated.

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