



# Sensors for Chemical and Biological Applications

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In recent years, sensor research has undergone a quiet revolution that will have a significant impact on a broad range of applications in areas such as health care, the environment, energy, food safety, national security, and manufacturing. **Sensors for Chemical and Biological Applications** discusses in detail the potential of chemical and biological sensors and examines how they are meeting the challenges of chem-bio terrorism by monitoring through enhanced specificity, fast response times, and the ability to determine multiple hazardous substances.

Exploring the nanotechnology approach, and carrying this theme throughout the book, the chapters cover the sensing principles for, chemical, electrical, chromatographic, magnetic, biological, fluidic, optical, and ultrasonic and mass sensing systems. They address issues associated with cost, synthesis, and testing of new low cost materials with high sensitivity, selectivity, robustness, and speed for defined sensor applications. The book extensively discusses the detailed analysis of future impact of chemical and biological sensors in day-to-day life.

Successful development of improved chemical sensor and biosensor systems and manufacturing procedures will not only increase the breadth and depth of the sensor industry, but will spill over into the design and manufacture of other types of sensors and devices that use nanofabrication and microfabrication techniques. This reference not only supplies versatile, hands-on tools useful in a broad array of disciplines, but also lays the interdisciplinary groundwork required for the achievement of sentient processing.

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