



## **Biological and Medical Sensor Technologies (Devices, Circuits, and Systems)**

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# Biological and Medical Sensor Technologies (Devices, Circuits, and Systems)

## Biological and Medical Sensor Technologies (Devices, Circuits, and Systems)

**Biological and Medical Sensor Technologies** presents contributions from top experts who explore the development and implementation of sensors for various applications used in medicine and biology. Edited by a pioneer in the area of advanced semiconductor materials, the book is divided into two sections.

The first part covers sensors for biological applications. Topics include:

- Advanced sensing and communication in the biological world
- DNA-derivative architectures for long-wavelength bio-sensing
- Label-free silicon photonics
- Quartz crystal microbalance-based biosensors
- Lab-on-chip technologies for cell-sensing applications
- Enzyme biosensors
- Future directions for breath sensors
- Solid-state gas sensors for clinical diagnosis

The second part of the book deals with sensors for medical applications. This section addresses:

- Bio-sensing and human behavior measurements
- Sweat rate wearable sensors
- Various aspects of medical imaging
- The future of medical imaging
- Spatial and spectral resolution aspects of semiconductor detectors in medical imaging
- CMOS SSPM detectors
- CdTe detectors and their applications to gamma-ray imaging
- Positron emission tomography (PET)

Composed of contributions from some of the world's foremost experts in their respective fields, this book covers a wide range of subjects. It explores everything from sensors and communication systems found in nature to the latest advances in manmade sensors. The end result is a useful collection of stimulating insights into the many exciting applications of sensor technologies in everyday life.

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