



Sensors in Biomedical Applications: Fundamentals, Technology and Applications

Gabor Harsanyi

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While most books contain some information on related sensors topics, they are limited in their scope on biomedical sensors. *Sensors in Biomedical Applications: Fundamentals, Design, Technology and Applications* is the first systematized book to concentrate on all available and potential sensor devices of biomedical applications!

Sensors in Biomedical Applications presents information on sensor types in a comprehensive and easy to understand format. The first four chapters concentrate on the basics, lending an understanding to operation and design principles of sensor elements. Introduced are sections on: basic terms, sensor technologies, sensor structure and sensing effects. The next three chapters describe application possibilities: physical sensors, sensors for measuring chemical qualities and biosensors. Finally, a chapter covers biocompatibility, in addition to an appendix and glossary.

Sensors in Biomedical Applications is the definitive reference book for a broad audience. All physicists, chemists and biologists interested in the chemical basis and effects of sensors will find this work invaluable. Biomedical engineers and sensor specialists will find the text useful in its pointed analysis of special design, processing and application problems. Physicians practicing with diagnostic tools will want to see the possibilities and limits of biomedical sensors. Finally, students of all of the above areas who wish to learn more about the basics of biomedical sensors need to have this book.

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