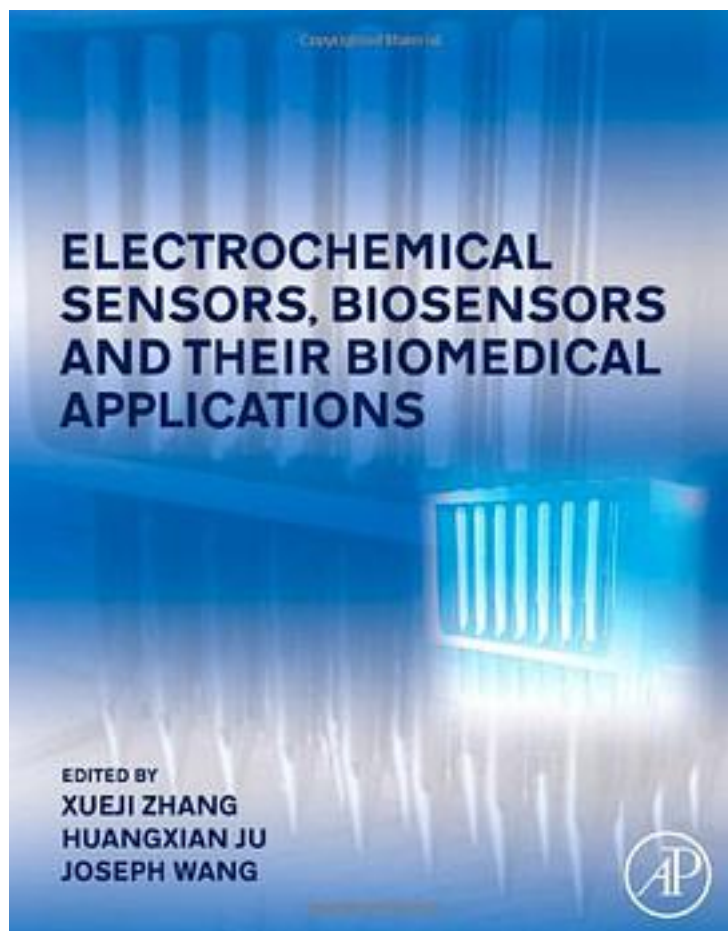


Electrochemical Sensors, Biosensors and their Biomedical Applications



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The central goal of this book is to broadly review the modern techniques and significant applications of chemical sensors and biosensors. Chapters are written by

experts in the field including Professor Joseph Wang, the most cited scientist in the world and renowned expert on sensor science who is also co-editor. Each chapter provides technical details beyond the level found in typical journal articles, and explores the application of chemical sensors and biosensors to a significant problem in biomedical science, also providing a prospectus for the future. This book compiles the expert knowledge of many specialists in the construction and use of chemical sensors and biosensors including nitric oxide sensors, glucose sensors, DNA sensors, hydrogen sulfide sensors, oxygen sensors, superoxide sensors, immuno sensors, lab on chip, implantable microsensors, et al. Emphasis is laid on practical problems, ranging from chemical application to biomedical monitoring and from in vitro to in vivo, from single cell to animal to human measurement. This provides the unique opportunity of exchanging and combining the expertise of otherwise apparently unrelated disciplines of chemistry, biological engineering, and electronic engineering, medical, physiological. The reader is not only provided with user-oriented guidelines for the proper choice and application of new chemical sensors and biosensors, but also with new methodological advancements related to and correlated with the measurement of interested species in biomedical samples. Many case studies are included to illustrate the range of application and importance of the chemical sensors and biosensors. Provides with user-oriented guidelines for the proper choice and application of new chemical sensors and biosensors Details new methodological advancements related to and correlated with the measurement of interested species in biomedical samples. It contains many case studies to illustrate the range of application and importance of the chemical sensors and biosensors.

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