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Biosensors book pdf

This book equips students with a complete understanding of various types of sensors and biosensors that can be used for chemicals, biological and biomedical applications, including but not limited to temperature sensors, voltage sensor, light sensors, spectrometric sensors, pulse oximeter, fiber optic probes, fluorescence sensors, pH sensor, selective ion electrodes, piezoelectric sensors, glucose sensors, DNA and immunosensors, lab-on-a-chip biosensors, laboratory-on-a-chip biosensors and microcontroller-based sensors. The author treats the study of biosensors with an application-based approach, including more than 15 extensive hands-on laboratories given at the end of each chapter. The material is presented using a building block approach, starting with the fundamentals of sensor design and temperature sensors, and ending with more complicated biosensors. The novelties of this second edition are sections on op-amp filters, pulse oximetry, meat quality monitoring, advanced fluorescent dyes, autofluorescence, various fluorescence detection methods, selective fluoride electrode, advanced glucose sensing methods, including continuous glucose monitoring, paper-based laboratory-on-a-chip, etc. A new chapter on nano-biosensors and an appendix on microcontrollers make this book ideal for undergraduate engineering students studying biosensors. It can also serve as a practical guide for scientists and engineers working in the sensor or biosensor industries. PAGE 1 PAGE 2 Professor Ali A. Ensafi received his Ph.D. in 1991 in Analytical Chemistry from Shiraz University, Iran. He then joined the Chemistry Department of Isfahan University of Technology, Iran. He became a full professor in 2001. He is head of the Center of Excellence in Green Sensors & Chemistry at Iran's Ministry of Science, Research & Technology. He has published more than 445 ISI articles and has made more than 150 international and national oral presentations. He has received three international awards and is co-author of three books (Academic Press & Springer), associate editor of the Journal of the Iranian Chemical Society (Springer), and member of the editorial board of 13 international scientific journals. His research program is focused on the development of sensors and biosensors (based on electrochemical and spectroscopic methods), important biological and pharmaceutical compounds, and new energy source materials for fuel cells, supercapacitors and storage energy, using new nanocompounds. Professor of Analytical Chemistry, Department of Chemistry, Isfahan University of Technology, Iran Serves as a comprehensive resource in biosensor analysis Examines timely topics such as manufacturing biosensors and nanobiosensors Covers economic aspects and medical applications (e.g., the role of analytes in control Diabetes) Serves as a comprehensive resource in biosensor analysis Examines timely topics such as manufacturing biosensors and nanobiosensors Covers economic aspects and medical applications (e.g., medical applications, Role of analyses in diabetes control) Currently you do not have access to this book, however you can buy separate chapters directly from the table of contents or buy the full version. Buy the book © 1996-2014, Amazon.com, Inc. or its affiliates The open access Volume A Edited Biosensor is defined as a detection device that combines a transducer with a biologically sensitive and selective component. When a specific target molecule interacts with the biological component, a signal is produced, at the transducer level, proportional to the concentration of the substance. Therefore, biosensors can measure compounds present in the environment, chemical processes, food and humans... A biosensor is defined as a detection device that combines a transducer with a biologically sensitive and selective component. When a specific target molecule interacts with the biological component, a signal is produced, at the transducer level, proportional to the concentration of the substance. Therefore, biosensors can measure compounds present in the environment, chemical processes, food and human body at low cost when compared to traditional analytical techniques. Bringing together researchers from 11 different countries, this book covers a wide range of aspects and issues related to biosensor technology, such as biosensor applications in the fields of drug discovery, diagnosis and detection of bacteria, optical biosensors, biotelemetry and algorithms applied to biosensing. Read more >Oron de hardcopyIntechOpenBiosensorsEdited by Pier Andrea SerraOpen access peer-reviewed1. Enzyme-based electrochemical biosensorsBy Zhiwei Zhao and Helong Jiang12184Open access peer-reviewed2. Nanostructured metal oxides based on Enzyme Electrochemical Biosensors By Anees A. Ansari, M. Alhoshan, M.S. Alsalhi and A.S. Aldwayyan8105Open access peer-reviewed3. Biosensor amperimetric based on carbon nanotube and plasma polymerBy Hitoshi Murguruma3366Open peer-reviewed access4. Design and manufacture of Nanowire-based Conductance Biosensor Using Spacer Patterning TechniqBy U. Hashim, S. Fatimah Abd Rahman and M. E. A. Shohini3964Open access peer-reviewed5. 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