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Impedance Measurements; 3.4.1 Membrane Impedance; 3.4.2 Impedance Model of Single Cells; 3.4.3 Impedance Model of Populations of Cells; 3.4.4 Secondary Transducers; 3.5 Noise Sources; 3.5.1 Electrode Noise; 3.5.2 Electromagnetic Interference; 3.5.3 Biological Noise; 3.6 Summary; References; Chapter 4 Microelectrode Array (MEA) as Cell-Based Biosensors; 4.1 Introduction; 4.2 Principle; 4.3 Fabrication and Design of MEA System; 4.3.1 Fabrication; 4.3.2 Different MEA Chips; 4.3.3 Measurement Setup
4.4 Theoretical Analysis of Signal Process in MEA Systems 4.4.1 Equivalent Circuit Model of Signal Process; 4.4.2 Impedance Properties Analysis of MEA; 4.4.3 Analysis of Extracellular Signal; 4.5 Application of MEA; 4.5.1 Dissociated Neural Network on MEA; 4.5.2 Slice on MEA; 4.5.3 Retina on MEA; 4.5.4 Pharmacological Application; 4.6 Development Trends; 4.6.1 Lab on a Chip; 4.6.2 Portable MEA System; 4.6.3 Other Developmental Trends; 4.7 Summary; References; Chapter 5 Field Effect Transistor (FET) as Cell-Based Biosensors; 5.1 Introduction; 5.2 Principle; 5.3 Device and System
5.3.1 Fabrication of FET-Based Biosensor 5.3.2 FET Sensor System; 5.4 Theoretical Analysis; 5.4.1 Area-Contact Model; 5.4.2 Point-Contact Model; 5.5 Application; 5.5.1 Electrophysiological Recording of Neuronal Activity; 5.5.2 Two-Way Communication Between Silicon Chip and Neuron; 5.5.3 Neuronal Network Study; 5.5.4 Cell Microenvironment Monitoring; 5.6 Development Trends; 5.7 Summary; References; Chapter 6 Light Addressable Potentiometric Sensor (LAPS) as Cell-Based Biosensors; 6.1 Introduction; 6.2 Principle; 6.2.1 Fundamental; 6.2.2 Numerical Analysis; 6.3 Device and System; 6.3.1 Device

Sommario/riassunto

In the 21st century, we are witnessing the integration of two dynamic disciplines - electronics and biology. As a result bioelectronics and biosensors have become of particular interest to engineers and researchers working in related biomedical areas. Written by recognized experts the field, this leading-edge resource is the first book to systematically introduce the concept, technology, and development of cell-based biosensors. Readers find details on the latest cell-based biosensor models and novel micro-structure biosensor techniques. Taking an interdisciplinary approach, this unique volume presents the latest innovative applications of cell-based biosensors in a variety of biomedical fields. The book also explores future trends of cell-based biosensors, including integrated chips, nanotechnology and microfluidics. Over 140 illustrations help clarify key topics throughout the book.
