



Biosensing: International Research and Development

By -

Springer. Paperback. Book Condition: New. Paperback. 388 pages. Dimensions: 9.0in. x 6.0in. x 0.9in. The goal of this book is to disseminate information on the worldwide status and trends in biosensing R and D to government decisionmakers and the research community. The contributors critically analyze and compare biosensing research in the United States with that being pursued in Japan, Europe and other major industrialized countries. Biosensing includes systems that incorporate a variety of means, including electrical, electronic, and photonic devices; biological materials (e. g. , tissue, enzymes, nucleic acids, etc.); and chemical analysis to produce detectable signals for the monitoring or identification of biological phenomena. In a broader sense, the study of biosensing includes any approach to detection of biological elements and the associated software or computer identification technologies (e. g. , imaging) that identify biological characteristics. Biosensing is finding a growing number of applications in a wide variety of areas, including biomedicine, food production and processing, and detection of bacteria, viruses, and biological toxins for biowarfare defense. Subtopics likely to be covered in this study include the following: Nucleic acid sensors and DNA chips and arrays, organism- and cell-based biosensors, bioelectronics and biometrics, biointerfaces and biomaterials; biocompatibility and biofouling,...



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