Biosensors are essential to an ever-expanding range of applications, including healthcare; drug design; detection of biological, chemical, and toxic agents; environmental monitoring; biotechnology; aviation; physics; oceanography; and the protection of civilian and engineering infrastructures. This book, like the previous five books on biosensors by this author (and one by the co-author), addresses the neglected areas of analyte-receptor binding and dissociation kinetics occurring on biosensor surfaces. Topics are covered in a comprehensive fashion, with homogeneous presentation for the benefit of the reader. The contributors address the economic aspects of biosensors and incorporate coverage of biosensor fabrication and nanobiosensors, among other topics. The comments, comparison, and discussion presented provides a better perspective of where the field of biosensors is heading.

Serves as a comprehensive resource on biosensor analysis
Examines timely topics such as biosensor fabrication and nanobiosensors
Covers economic aspects and medical applications (e.g., the role of analytes in controlling diabetes)

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Detection Challenges in Clinical Diagnostics, Pankaj Vadgama, Serban Peteu, Michael Thompson, 2013, Medical, 246 pages. There are many remaining challenges impeding future progress in field of Clinical Diagnostics. This book presents a technical assessment and vision of clinical leaders, scoping.

Fractal Binding and Dissociation Kinetics for Different Biosensor Applications, Ajit Sadana, Jul 6, 2005, Science, 650 pages. Biosensors are portable and convenient devices that permit the rapid and reliable analysis of substances. They are increasingly used in healthcare, drug design, environmental.

Fractal Analysis of the Binding and Dissociation Kinetics for Different Analytes on Biosensor Surfaces, Ajit Sadana, Neeti Sadana, 2008, Computers, 361 pages. The book emphasizes medially-oriented examples. The detection of disease-related analytes is also emphasized. The intent being that if intractable and insidious diseases are.

Electrochemical Nanotechnologies, Tetsuya Osaka, Madhav Datta, Yosi Shacham-Diamand, Mar 24, 2010, Science, 279 pages. Nanoprocessing by means of electrochemical techniques is being used in an increasing array of industrial applications. This introductory volume reviews these applications in.

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