Introduction to Bioanalytical Sensors

Alice J. Cunningham
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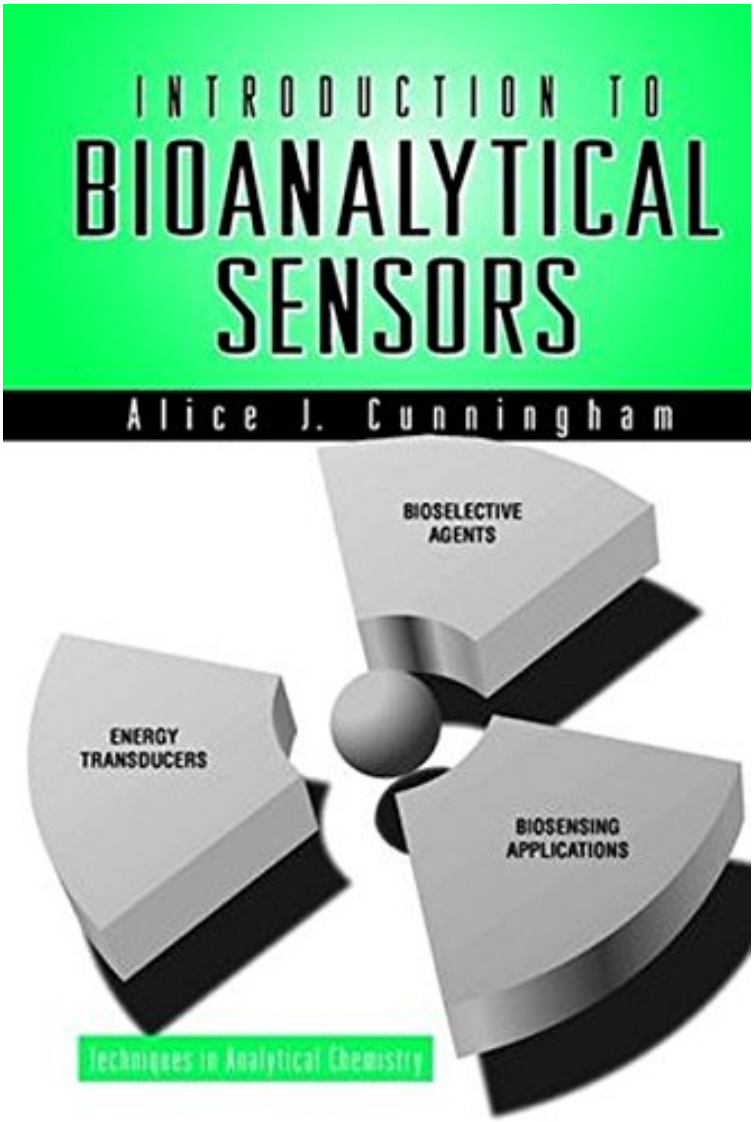

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Alice J. Cunningham : Introduction to Bioanalytical Sensors before purchasing it in order to gage whether or not it would be worth my time, and all praised Introduction to Bioanalytical Sensors:

A practical introduction to the applications, principles, design, and fabrication of biosensors, which are used to measure and analyze clinical medical problems, biotechnology processes, environmental impact, and living tissue.

This accessible volume emphasizes accuracy of interpretation and maximizing information yield.

From the PublisherA practical introduction to the applications, principles, design, and fabrication of biosensors, which are used to measure and analyze clinical medical problems, biotechnology processes, environmental impact, and living tissue. This accessible volume emphasizes accuracy of interpretation and maximizing information yield.From the Back CoverGain the basic knowledge you need to utilize modern technologies for biosensors--quickly and efficiently Biosensors have become virtually indispensable components in the analytical scientist's toolkit. Increasingly, researchers are called upon to design and adapt them for customized applications. Yet, surprisingly, most young scientists graduate without having acquired an integrated working knowledge of the cross-disciplinary principles underlying biosensing strategies. This book was prepared to fill that critical educational gap. Introduction to Bioanalytical Sensors presents to readers a broad view of scientific concepts and principles informing the design and use of biosensing devices and systems. While it offers an integrated presentation of foundational information from an array of related scientific disciplines, the emphasis throughout is on applications rather than theory. Only as much basic science is covered as is necessary for an analytical scientist to use or customize biosensing devices for fulfilling experimental objectives. Major topics covered include: * Biosensors and bioanalytical challenges * Designing for performance * Developing bioselective layers * Fundamentals of electroanalytical sensors * Optically based energy transduction * Thermal and acoustic-wave transduction Introduction to Bioanalytical Sensors, written as a self-teaching guide, assumes that readers have only a bachelor's degree in chemistry or a related field utilizing analytical and physical chemistry, and biochemistry.About the AuthorBefore retiring in 1992, ALICE J. CUNNINGHAM was the William Rand Kenan, Jr. Professor of Chemistry at Agnes Scott College. She was also a Distinguished Visiting Scholar and Visiting Professor at Emory University from 1984-86. While Dr. Cunningham's contributions to chemical education have been recognized by various professional organizations, she has also maintained research interests in bioanalytical methodologies for more than thirty years.