

Chemical Sensors and Biosensors

By Brian R. Eggins

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Covering the huge developments in sensor technology and electronic sensing devices that have occurred in the last 10 years, this book uses an open learning format to encourage reader understanding of the subject.

- An invaluable distance learning book
- Applications orientated providing invaluable aid for anyone wishing to use chemical and biosensors

Key features and subjects covered include the following:

- Sensors based on both electrochemical and photometric transducers
- Mass-sensitive sensors
- Thermal-sensitive sensors
- Performance factors for sensors
- Examples of applications
- Detailed case studies of five selected sensors
- 30 discussion questions with worked examples and 80 self-assessment questions
- 140 explanatory diagrams
- An extensive bibliography

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Editorial Review

Review
"...It would be a valuable addition to university libraries..." (Chemistry in Britain, November 2002)

"...a useful contribution to introducing the subject to a wider range of analytical scientists..." (Chemistry & Industry, 3 March 2003)

“…covers a wide range of sensoring systems…accessible to a broad audience.” (Metrohm Information, Vol.33, No.2 2004)

From the Back Cover
Chemical sensors and biosensors are among the fastest growing of analytical techniques. This text provides an up-to-the-minute overview of a wide range of sensing systems, discussing the elements of different transducers used in sensors and the selective elements that are employed. The style is relatively non-mathematical and informal in approach.
Key features and subjects covered include the following:
* Sensors based on both electrochemical and photometric transducers
* Mass-sensitive sensors
* Thermal-sensitive sensors
* Performance factors for sensors
* Examples of applications
* Detailed case studies of five selected sensors
* 30 discussion questions with worked examples and 80 self-assessment questions
* 140 explanatory diagrams
* An extensive bibliography
The book's approach is ideal for students at BTEC (HND and HNC) level, as well as for BSc degree and postgraduate students of analytical and physical chemistry. Chemical Sensors and Biosensors will, in addition, be invaluable to all those concerned with the environmental and biomedical applications of such systems

Users Review

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Jeffrey Smith:

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