



# Fundamentals of Electro-Analytical Chemistry

By Paul M. S. Monk

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## Fundamentals of Electro-Analytical Chemistry By Paul M. S. Monk

This thoroughly updated open learning text provides an introduction to electroanalytical chemistry, one of today's fastest growing and most exciting frontiers of analytical science. The author discusses electroanalysis in a non-mathematical and informal tutorial style and offers over 250 discussion and self-assessment questions. In addition he includes 50 worked examples that provide excellent material for testing the reader's understanding of the subject matter.

The topics covered include the following:

- \* Simple emf measurements with cells
- \* Equilibrium and dynamic measurements
- \* Polarography
- \* Cyclic voltammetry
- \* Rotated disc, ring-disc and wall-jet electrodes
- \* In situ spectroelectrochemistry measurements
- \* Impedance analysis
- \* Preparation of electrodes
- \* Data processing

The book also contains a comprehensive bibliography and details of web-based resources. It assumes no prior knowledge of this powerful branch of analytical science and will be an invaluable aid for anyone wanting to perform analytical measurements using electrochemical techniques. Its approach makes it also ideal for students.

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## **Editorial Review**

### **Review**

"...this book is recommended for all those who wish to learn about the different electroanalytical methods..."  
(Angewandte Chemie International Edition, Vol. 40, NO. 23, December 3, 2001)

### **From the Back Cover**

This thoroughly updated open-learning book provides an introduction to electroanalytical chemistry, one of today's fastest growing and most exciting branches of analytical science. This text discusses electroanalysis in a non-mathematical and informal tutorial style. In addition to over 250 discussion and self-assessment questions, 50 worked examples are also included throughout the book, thus providing a wide range of excellent material for testing the reader's understanding of the subject matter.

The topics covered include the following:

- \* Simple emf measurements with cells
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The book also contains a comprehensive bibliography and details of web-based resources.

Electroanalytical Chemistry assumes no prior knowledge of this powerful branch of analytical science and will be an invaluable aid for anyone wanting to perform analytical measurements using electrochemical techniques. The book's approach is ideal for students studying at Foundation, BTEC (HNC and HND), and for those pursuing BSc and MChem courses in analytical and physical chemistry, as well as subsidiary courses in life, environmental and materials science.

### **Analytical Techniques in the Sciences**

This series of books provides coverage of all the major analytical techniques and their application in the most important areas of physical, life and materials sciences. Each text is presented in an open-learning/distance-learning style, in which the learning objectives are clearly identified. The reader's understanding of the materials is constantly evaluated by the use of self-assessment and discussion questions.

### **About the Author**

The author was brought up in Hastings, on England's south coast, where he attended a local comprehensive school. Despite this education, he achieved entrance to the University of Exeter to read Chemistry. Having obtained a B. Sc. degree and then a doctorate (in 1989) on the electrochemistry of the viologens, he was awarded a fellowship at the University of Aberdeen to study the electrochromism of thin films of tungsten trioxide. He joined the staff of the Department of Chemistry and Materials, Manchester Metropolitan University in 1991 as a lecturer in Physical Chemistry. He was promoted to Senior Lecturer in 1998. He enjoys writing, and is also the author of the books *Electrochromism: Fundamentals and Applications* and *The Viologens*, both of these published by John Wiley & Sons. Paul Monk is married, in which state he is instructed to profess great happiness, and is also a Methodist Local Preacher.

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