



## Electrochemistry for Chemists

*By Donald T. Sawyer, Andrzej Sobkowiak, Julian L. Roberts*

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**Electrochemistry for Chemists** By Donald T. Sawyer, Andrzej Sobkowiak, Julian L. Roberts

A complete and practical guide to the basic principles of electrochemistry for the nonspecialist

Emphasizing practical applications and real-world experimentation, *Electrochemistry for Chemists* gives chemists, biologists, and material scientists a solid understanding of the basic principles and modern methodology of electrochemistry. Incorporating the many new applications of recent years, this thoroughly updated Second Edition gives the nonelectrochemist access to a powerful tool for the study and measurement of chemical systems. And, like the popular first edition, the Second Edition is also a useful text for senior undergraduate and graduate students, especially in organic, inorganic, and biological chemistry.

- \* Offers a practical guide to the use of electrochemical methods in research and laboratory work
- \* Provides examples of molecular characterization by electrochemical methods in all subdivisions of chemistry, including dioxygen species, base metals, and nonmetals
- \* Includes numerous tables of electrochemical data, as well as physical parameters for solvents, electrolytes, cells, and electrodes
- \* Incorporates the latest information on instrumentation, solvents, and reagents
- \* Lists extensive references for further study of theoretical issues

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## **Editorial Review**

### **From the Publisher**

This updated monograph outlines the basic principles and modern methodology of electrochemistry in such a manner that the uninitiated will gain sufficient background in order to use electrochemical techniques for the study of chemical systems. This edition covers substantive changes and advances in instrumentation, solvents, reagents and applications.

### **From the Back Cover**

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### **About the Author**

DONALD T. SAWYER is Distinguished Professor of Chemistry at Texas A&M University, and from 1956 to 1986 was on the faculty of the University of California, Riverside. Professor Sawyer is the author of 300 research publications and coauthor of ten books, including *Experimental Electrochemistry for Chemists*, and *Electrochemical Studies of Biological Systems*. His numerous awards and appointments include election as a Fellow of the American Association for the Advancement of Science; Guggenheim, Merton College (Oxford), and JSPS Fellowships; and the Richard C. Tolman Medal.

ANDRZEJ SOBKOWIAK is Professor of Chemistry at Rzeszow University of Technology. Since 1988 he has collaborated with Professor Sawyer on research into metal-induced activation of dioxygen species.

JULIAN L. ROBERTS, Jr., is Professor of Chemistry at the University of Redlands, Redlands, California. A former NSF Science Faculty Fellow at Caltech, Professor Roberts is a collaborator with Professor Sawyer and a contributor to journals in electrochemistry.

## **Users Review**

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**Natalie White:**

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