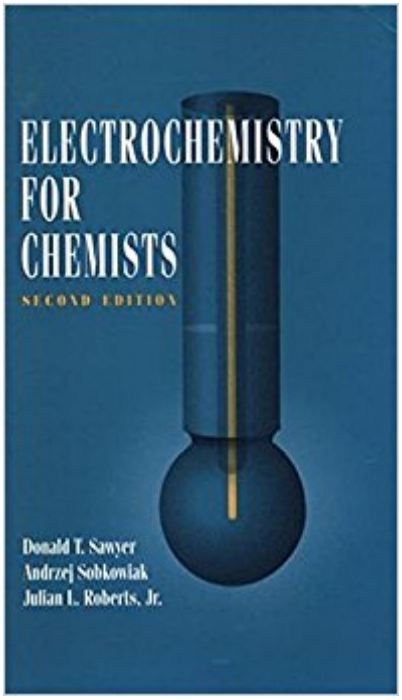
Electrochemistry For Chemists



Synopsis

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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Customer Reviews

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.

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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