DESCRIPTION

Fundamentals of Electrochemistry provides the basic outline of most topics of theoretical and applied electrochemistry for students not yet familiar with this field, as well as an outline of recent and advanced developments in electrochemistry for people who are already dealing with electrochemical problems.

The content of this edition is arranged so that all basic information is contained in the first part of the book, which is now rewritten and simplified in order to make it more accessible and used as a textbook for undergraduate students. More advanced topics, of interest for postgraduate levels, come in the subsequent parts.

This updated second edition focuses on experimental techniques, including a comprehensive chapter on physical methods for the investigation of electrode surfaces. New chapters deal with recent trends in electrochemistry, including nano- and micro-electrochemistry, solid-state electrochemistry, and electrocatalysis. In addition, the authors take into account the worldwide renewal of interest for the problem of fuel cells and include chapters on batteries, fuel cells, and double layer capacitors.

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