

Modern Aspects of Electrochemistry: No. 36 (Hardback)

modern aspects of electrochemistry no. 36

Edited by COSTAS G. VAYENAS,
B. E. CONWAY, and RALPH E. WHITE

Filesize: 7.66 MB

Reviews

It is simple in study easier to comprehend. It is one of the most awesome ebook i have read through. You wont truly feel monotony at at any moment of your respective time (that's what catalogs are for concerning in the event you question me).

(Clint Sporer)

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Springer Science+Business Media, United States, 2003. Hardback. Book Condition: New. 2003 ed.. 211 x 142 mm. Language: English . Brand New Book ***** Print on Demand *****.This volume of Modern Aspects contains a remarkable spread of topics covered in an authoritative manner by some internationally renowned specialists. In a seminal chapter Drs. Babu, Oldfield and Wieckowski demonstrate eloquently the strength of electrochemical nuclear magnetic resonance (EC-NMR) to study *in situ* both sides of the electrochemical interface via the simultaneous use of and This powerful non-invasive technique brings new insights to both fundamental and practical key aspects of electrocatalysis, including the design of better anodes for PEM fuel cells. The recent impressive advances in the use of rigorous *ab initio* quantum chemical calculations in electrochemistry are described in a remarkable chapter by Marc Koper, one of the leading protagonists in this fascinating area. This lucid chapter is addressed to all electrochemists, including those with very little prior exposure to quantum chemistry, and demonstrates the usefulness of *ab initio* calculations, including density functional theory (DFT) methods, to understand several key aspects of fuel cell electrocatalysis at the molecular level. The most important macroscopic and statistical thermodynamic models developed to describe adsorption phenomena on electrodes are presented critically in a concise and authoritative chapter by Panos Nikitas. The reader is guided through the seminal contributions of Frumkin, Butler, Bockris, Guidelli and others, to the current state of the art adsorption isotherms, which are both rigorous, and in good agreement with experiment.

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