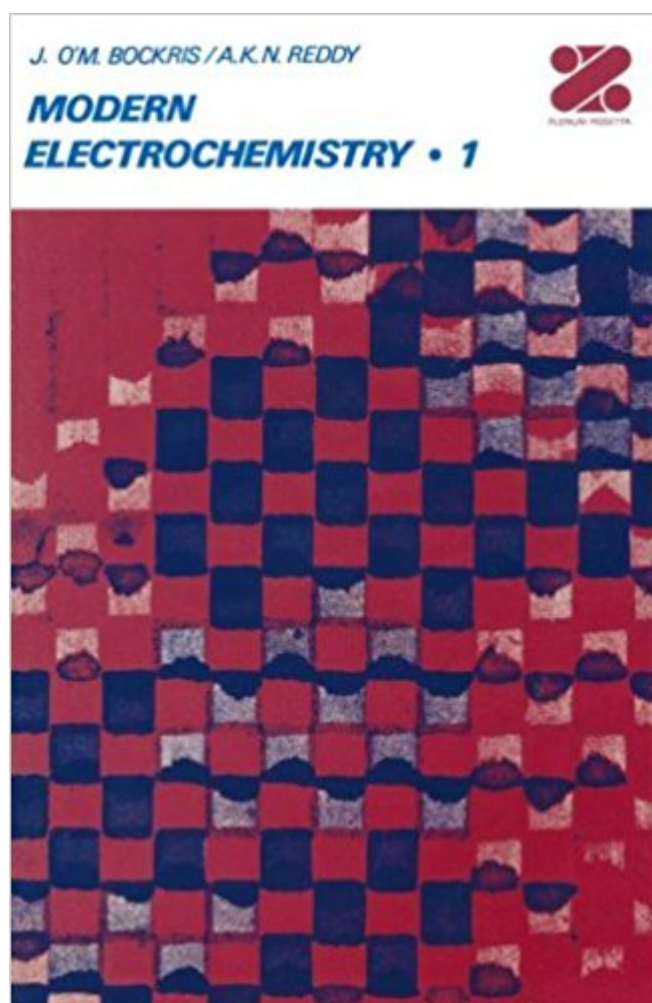


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Modern Electrochemistry: An Introduction To An Interdisciplinary Area, Vol. 1



Synopsis

This book had its nucleus in some lectures given by one of us (J. O'M. B.) in a course on electrochemistry to students of energy conversion at the University of Pennsylvania. It was there that he met a number of people trained in chemistry, physics, biology, metallurgy, and materials science, all of whom wanted to know something about electrochemistry. The concept of writing a book about electrochemistry which could be understood by people with very varied backgrounds was thereby engendered. The lectures were recorded and written up by Dr. Klaus Muller as a 293-page manuscript. At a later stage, A. K. N. R. joined the effort; it was decided to make a fresh start and to write a much more comprehensive text. Of methods for direct energy conversion, the electrochemical one is the most advanced and seems the most likely to become of considerable practical importance. Thus, conversion to electrochemically powered transportation systems appears to be an important step by means of which the difficulties of air pollution and the effects of an increasing concentration in the atmosphere of carbon dioxide may be met. Corrosion is recognized as having an electrochemical basis. The synthesis of nylon now contains an important electrochemical stage. Some central biological mechanisms have been shown to take place by means of electrochemical reactions. A number of American organizations have recently recommended greatly increased activity in training and research in electrochemistry at universities in the United States.

Book Information

Paperback: 622 pages

Publisher: Springer; 1970 edition (October 1, 1973)

Language: English

ISBN-10: 0306250012

ISBN-13: 978-0306250019

Package Dimensions: 8.9 x 5.8 x 1.3 inches

Shipping Weight: 2 pounds

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #2,350,842 in Books (See Top 100 in Books) #80 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #94 in Books > Science & Math > Chemistry > Electrochemistry #638 in Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry

Customer Reviews

in my humble opinion one of the best books on electrodes, there are two volumes I and II.. read them both several times... Bockris has newer versions, you will not hurt yourself by starting with this version.. if you are a EE the presentation will be familiar.. Eber Moll -> Butler Votlmer..

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