



## Electrochemical Science and Technology: Fundamentals and Applications (Hardback)

By Keith B. Oldham, Jan Myland, Alan Bond

John Wiley and Sons Ltd, United States, 2011. Hardback. Condition: New. New. Language: English . Brand New Book. Electrochemistry is a discipline of wide scientific and technological interest. Scientifically, it explores the electrical properties of materials and especially the interfaces between different kinds of matter. Technologically, electrochemistry touches our lives in many ways that few fully appreciate; for example, materials as diverse as aluminum, nylon, and bleach are manufactured electrochemically, while the batteries that power all manner of appliances, vehicles, and devices are the products of electrochemical research. Other realms in which electrochemical science plays a crucial role include corrosion, the disinfection of water, neurophysiology, sensors, energy storage, semiconductors, the physics of thunderstorms, biomedical analysis, and so on. This book treats electrochemistry as a science in its own right, albeit resting firmly on foundations provided by chemistry, physics, and mathematics. Early chapters discuss the electrical and chemical properties of materials from which electrochemical cells are constructed. The behavior of such cells is addressed in later chapters, with emphasis on the electrodes and the reactions that occur on their surfaces. The role of transport to and from electrodes is a topic that commands attention, because it crucially determines cell efficiency. Final...

DOWNLOAD



READ ONLINE  
[ 5.8 MB ]

### Reviews

*Very useful to all group of folks. This really is for all who statte there was not a worthy of reading. I am very happy to explain how this is the best pdf i have study inside my personal life and can be he greatest book for actually.*

-- **Marcelle Homenick**

*Absolutely essential study book. It is loaded with wisdom and knowledge I found out this ebook from my i and dad suggested this ebook to understand.*

-- **Dr. Lera Spencer**