



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
[7.83 MB]

Reviews

This pdf is very gripping and fascinating. We have read and that i am certain that i am going to going to read once more again in the future. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Burnice Cronin**

This book could be worthy of a read through, and a lot better than other. It can be full of knowledge and wisdom I am just happy to tell you that here is the best book we have read through inside my personal lifestyle and could be he finest pdf for ever.

-- **Miss Concepcion Gusikowski DDS**