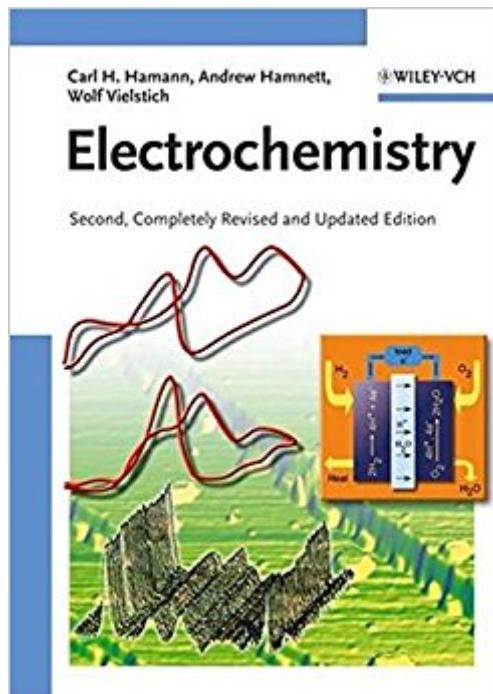


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Electrochemistry



Synopsis

This second, completely updated edition of a classic textbook provides a concise introduction to the fundamental principles of modern electrochemistry, with an emphasis on applications in energy technology. The renowned and experienced scientist authors present the material in a didactically skilful and lucid manner. They cover the physical-chemical fundamentals as well as such modern methods of investigation as spectroelectrochemistry and mass spectrometry, electrochemical analysis and production methods, as well as fuel cells and micro- and nanotechnology. The result is a must-have for advanced chemistry students as well as those studying chemical engineering, materials science and physics.

Book Information

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Customer Reviews

"The text is certainly comprehensive in its coverage, ranging from ionic mobilities and liquid junction potentials, through redox electrochemistry of proteins and surface spectroscopy of electrocatalytic reactions, to fuel cells, batteries and gas sensors." (Chromatographia, February 2010) "The renowned authorial team emphasize application in energy technology while covering the physicalchemical fundamentals, modern methods of investigation, electrochemical analysis and production methods, as well as fuel cells and micro-and nanotechnology." (Chimie Nouvelle, March 2010)"Both classical contents and modern developments of electrochemistry have been incorporated in this textbook to educate young modern electrochemists .A very solid and useful textbook. I highly recommend it to students and researchers." (The Higher Education Academy

Physical Sciences Centre, December 2008) "an excellent introduction to the physical-chemical aspects of electrochemistry and is strongly recommended." (CHOICE, December 2007)

Batteries, fuel cells, corrosion and electricity - with the advent of materials science and nanotechnology, electrochemistry is more important than ever. It is also becoming increasingly interdisciplinary, such that electrochemistry is a must for all chemistry students in their courses and for laboratory courses in physical chemistry. This second, completely updated edition of a classic textbook provides a concise introduction to modern electrochemistry, from the physical-chemical fundamentals right up to technical applications, with an emphasis on energy technology. The renowned and experienced textbook authors present the material in a didactically skilful and lucid manner, backed by numerous informative illustrations and tables. The scope of this book covers such modern methods of investigation as spectroelectrochemistry and mass spectrometry, electrochemical analysis and production methods, as well as fuel cells and micro- and nanotechnology. The result is required reading for those majoring in chemistry, as well as those studying chemical engineering, materials science and physics.

If you have a class that requires this textbook, drop the class. This is the second worst textbook I have had the displeasure of ever purchasing, and it only beats out the first by a slim margin because the other than more typographical errors than this. You don't -learn- when reading this textbook. The information isn't structured in a way that is conducive to learning. This is the kind of textbook you look at after you understand everything within it, and want to refresh your memory on that one equation you suddenly find yourself needing, without explanation of its background nor in many cases the constants that make it up. Unless you have an absolutely stupendous teacher, in which case the purchasing of this book is pretty much worthless sans the chapter problems that might be assigned, you will NOT learn anything.

As one of the other reviews has stated, this is a terrible book if you want to learn electrochemistry. Electrochemical Methods: Fundamentals and Applications by Bard and Faulkner is a vastly superior text book and explains concepts much clearer than Hamann. Hamann does go a little bit more in depth into thermodynamic concepts but Bard and Faulkner is the way to go.

GREAT

A good book if you want to know a little more application of electrochemistry. It doesn't have a nitty gritty detail of theory but it was helpful for me to get ideas about some practical applications of the area.

Perfect.

Nice product!

Great book. Real professional.

I use this textbook for teaching an undergraduate electrochemistry class. The text covers most of the necessary topics and recommends IUPAC quantities, units, and symbols.

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