

Electrochemistry Hamann

X-Ray Studies on Electrochemical

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this book is your graduate level entrance into battery fuel cell and solar cell research at synchrotron x ray sources materials scientists find numerous examples for the combination of electrochemical experiments with simple and with highly complex x ray scattering and spectroscopy methods physicists and chemists can link applied electrochemistry with fundamental concepts of condensed matter physics physical chemistry and surface science contents introduction molecular structure and electronic structure crystal structure and microstructure real space imaging and tomography resonant methods and chemical contrast variation surface sensitive and volume sensitive methods organic and bio organic samples complex case studies electrochemical in situ studies correlation of electronic structure and conductivity radiation damages background subtraction x ray physics nobel prizes

synchrotron centers world electromagnetic spectrum α B x ray energies periodic table of elements

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

as the subject of electrochemistry moves into the final quarter of the century a number of developed areas can be assessed in depth while some new areas provide quantitatively and qualitatively novel data and results the first chapter by kebarle deals with an example of the latter type of field in which new information of the energetics and equilibria of reactions between ions and solvent molecules is studied in the gas phase and provides interesting basic information for treatments of ions in solution i e ionic solvation chapter 2 by hamann discusses the behavior of electrolyte solutions under high pressures a matter of intrinsic interest in relation to ion solvent interaction and the structural aspects of the properties of ionic solutions especially in water this topic is also of current interest with regard to the physical chemistry of the marine environment especially at great depths in the article by bloom and snook chapter 3 models for treatments of molten salt systems are examined quantitatively in relation to the structure of molten ionic liquids and to the statistical mechanical approaches that can be meaningfully made to interpret their properties and electrochemical behavior

this textbook offers original and new approaches to the teaching of electrochemical concepts principles and applications throughout the text the authors provide a balanced coverage of the thermodynamic and kinetic processes at the heart of electrochemical systems the first half of the book outlines fundamental concepts appropriate to undergraduate students and the second half gives an in depth account of electrochemical systems suitable for experienced scientists and course lecturers concepts are clearly explained and mathematical treatments are kept to a minimum or reported in appendices this book features questions and answers for self assessment basic and advanced level numerical descriptions illustrated electrochemistry applications this book is accessible to both novice and experienced electrochemists and supports a deep understanding of the fundamental principles and laws of electrochemistry

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