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A Comprehensive Reference for Electrochemical Engineering Theory and Application From chemical and electronics manufacturing, to hybrid vehicles, energy storage, and beyond, electrochemical engineering touches many industries—any many lives—every day. As energy conservation becomes of central importance, so too does the science that helps us reduce consumption, reduce waste, and lessen our impact on the planet. Electrochemical Engineering provides a reference for scientists and engineers working with electrochemical processes; and a rigorous, thorough text for graduate students and upper-division undergraduates. Merging theoretical concepts with widespread application, this book is designed to provide critical knowledge in a real-world context. Beginning with the fundamental principles underpinning the field, the discussion moves into industrial and manufacturing processes that blend central ideas to provide an advanced understanding while explaining observable results. Fully-worked illustrations simplify complex processes, and end-of chapter questions help reinforce essential knowledge. With in-depth coverage of both the practical and theoretical, this book is both a thorough introduction to and a useful reference for the field. Rigorous in depth, yet grounded in relevance, Electrochemical Engineering: Introduces basic principles from the standpoint of practical application Explores the kinetics of electrochemical reactions with discussion on thermodynamics, reaction fundamentals, and transport Covers battery and fuel cell characteristics, mechanisms, and system design Delves into the design and mechanics of hybrid and electric vehicles, including regenerative braking, start-stop hybrids, and fuel cell systems Examines electrodeposition, redox-flow batteries, electrolysis, regenerative fuel cells, semiconductors, and other applications of electrochemical engineering principles Overlapping chemical engineering, chemistry, material science, mechanical engineering, and electrical engineering, electrochemical engineering covers a diverse array of phenomena explained by some of the important scientific discoveries of our time. Electrochemical Engineering provides the critical understanding required to work effectively with these processes as they become increasingly central to global sustainability.

A broad and comprehensive survey of the fundamentals for electrochemical methods now in widespread use. This book is meant as a textbook, and can also be used for self-study as well as for courses at the senior undergraduate and beginning graduate levels. Knowledge of physical chemistry is assumed, but the discussions start at an elementary level and develop upward. This revision comes twenty years after publication of the first edition, and provides valuable new and updated coverage.

The critically acclaimed guide to the principles, techniques, and instruments of electroanalytical chemistry-now expanded and revised Joseph Wang, internationally renowned authority on electroanalytical techniques, thoroughly revises his acclaimed book to reflect the rapid growth the field has experienced in recent years. He substantially expands the theoretical discussion while providing comprehensive coverage of the latest advances through late 1999, introducing such exciting new topics as self-assembled monolayers, DNA biosensors, lab-on-a-chip, detection for capillary electrophoresis, single molecule detection, and sol-gel surface modification. Along with numerous references from the current literature and new worked-out examples, Analytical Electrochemistry, Second Edition offers clear, reader-friendly explanations of the fundamental principles of electrochemical processes as well as important insight into the potential of electroanalysis for problem solving in a wide range of fields, from clinical diagnostics to environmental science. Key topics include: The basics of electrode reactions and the structure of the interfacial region Tools for elucidating electrode reactions and high-resolution surface characterization An overview of finite-current controlled potential techniques Electrochemical instrumentation and electrode materials Principles of potentiometric measurements and ion-selective electrodes Chemical sensors, including biosensors, gas sensors, solid-state devices, and sensor arrays

Due to the increasing demand for power generation and the limited nature of fossil fuels, new initiatives for energy development based on electrochemical energy conversion systems are springing up around the world. Introduction to Electrochemical Science and Engineering describes the basic operational principles for a number of growing electrochemical engineering-related technologies, including fuel cells, electrolyzers, and flow batteries. Inspired by the author's more than ten years of experience teaching undergraduate electrochemistry-related courses at Penn State University, this essential text: Ensures a fundamental knowledge of the core concepts of electrochemical science and engineering, such as electrochemical cells, electrolytic conductivity, electrode potential, and current-potential relations related to a variety of electrochemical systems Develops the initial skills needed to understand an electrochemical experiment and successfully evaluate experimental data without visiting a laboratory Provides more than 360 conceptual and numerical problems distributed over nine quizzes and nine video-based assignments Contains a number of illustrative case studies related to novel electrochemical energy conversion systems Promotes an appreciation of the capabilities and applications of key electrochemical techniques Solutions manual and electronic figure files available with qualifying course adoption Introduction to Electrochemical Science and Engineering is an ideal textbook for undergraduate engineering and science students and those readers in need of introductory-level content. Furthermore, experienced readers will find this book useful for solidifying their electrochemical background.

The authors, who have more than two decades of combined experience teaching an atoms-first course, have gone beyond reorganizing the topics. They emphasize the particulate nature of matter throughout the book in the text, art, and problems, while placing the chemistry in a biological, environmental, or geological context. The authors use a consistent problem-solving model and provide students with ample opportunities to practice.

This bestselling textbook on physical electrochemistry caters to the needs of advanced undergraduate and postgraduate students of chemistry, materials engineering, mechanical engineering, and chemical engineering. It is unique in covering both the more fundamental, physical aspects as well as the application-oriented practical aspects in a balanced manner. In addition it serves as a self-study text for scientists in industry and research institutions working in related fields. The book can be divided into three parts: (i) the fundamentals of electrochemistry; (ii) the most important electrochemical measurement techniques; and (iii) applications of electrochemistry in materials science and engineering, nanoscience and nanotechnology, and industry. The second edition has been thoroughly revised, extended and updated to reflect the state-of-the-art in the field, for example, electrochemical printing, batteries, fuels cells, supercapacitors, and hydrogen storage.

In the past few decades, research in the science of electrodeposition of metals has shown the important practical applications of electronic, magnetic, energy devices and biomedical materials. The aim of this new volume is to review the latest developments electrodeposition and present them to teachers, professionals, and students working in the field.

Bioimpedance and Bioplectricity Basics, 3rd Edition paves an easier and more efficient way for people seeking basic knowledge about this discipline. This book's focus is on systems with galvanic contact with tissue, with specific detail on the geometry of the measuring system. Both authors are internationally recognized experts in the field. The highly effective, easily followed organization of the second edition has been retained, with a new discussion of state-of-the-art advances in data analysis, modelling, endogenic sources, tissue electrical properties, electrodes, instrumentation and measurements. This book provides the basic knowledge of electrochemistry, electronic engineering, physics, physiology, mathematics, and model thinking that is needed to understand this key area in biomedicine and biophysics. Covers tissue immittance from the ground up in an intuitive manner, supported with figures and examples New chapters on electrodes and statistical analysis Discusses in detail dielectric and electrochemical aspects, geometry and instrumentation as well as electrical engineering concepts of network theory, providing a cross-disciplinary resource for engineers, life scientists, and physicists

This is the first of two volumes offering the very first comprehensive treatise of self-organization and non-linear dynamics in electrochemical systems. The second volume covers spatiotemporal patterns and the control of chaos. The content of both volumes is organized so that each description of a particular electrochemical system is preceded by an introduction to basic concepts of nonlinear dynamics, in order to help the reader unfamiliar with this discipline to understand at least fundamental concepts and the methods of stability analysis. The presentation of the systems is not limited to laboratory models but stretches out to real-life objects and processes, including systems of biological importance, such as neurons in living matter. Marek Orlik presents a comprehensive and consistent survey of the field.

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