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Richard G Compton is Professor of Chemistry and Aldrichian Praelector at Oxford University, United Kingdom where he is also Tutor in Chemistry at St John's College. Compton has broad interests in both fundamental and applied electrochemistry and electroanalysis including nanochemical aspects. He is the Physical Chemistry editor of the Oxford Chemistry Primers series which comprises about 100 ...

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he power of electrochemical measurements in respect of thermodynamics, kinetics and analysis is widely recognised but the subject can be unpredictable to the novice even if they have a strong physical and chemical background, especially if they wish to pursue quantitative measurements. Accordingly, some significant experiments are perhaps wisely never attempted while the literature is sadly replete with flawed attempts at rigorous voltammetry. This textbook considers how to implement designing, explaining and interpreting experiments centered on various forms of voltammetry (cyclic, microelectrode, hydrodynamic, etc.). The reader is assumed to have knowledge of physical chemistry equivalent to Master's level but no exposure to electrochemistry in general, or voltammetry in particular. While the book is designed to stand alone, references to important research papers are given to provide an introductory entry into the literature. The third edition contains new material relating to electron transfer theory, experimental requirements, scanning electrochemical microscopy, adsorption, electroanalysis and nanoelectrochemistry.

This is the first textbook in the field of electrochemistry that will teach experimental electrochemists how to carry out simulation of electrode processes. Processes at both macro- and micro-electrodes are examined and the simulation of both diffusion-only and diffusion – convection processes are addressed. The simulation of processes with coupled homogeneous kinetics and at microelectrode arrays are further discussed. Over the course of the book the reader's understanding is developed to the point where they will be able to undertake and solve research-level problems. The book leads the reader through from a basic understanding of the principles underlying electrochemical simulation to the development of computer programs which describe the complex processes found in voltammetry. This is the third book in the “ Understanding Voltammetry ” series, published with Imperial College Press and written by the Compton group. Other books in the series include “ Understanding Voltammetry ”, written by Richard G Compton with Craig Banks and also “ Understanding Voltammetry: Problems and Solutions ” (2012) written by Richard G Compton with Christopher Batchelor-McAuley and Edmund Dickinson. These are and continue to be successful textbooks for graduates in electrochemistry and electroanalytical studies. Contents: Introduction Mathematical Model of an Electrochemical System Numerical Solution of the Model System Diffusion-Only Electrochemical Problems in One-Dimensional Systems First-Order Chemical Kinetic Mechanisms Second-Order Chemical Kinetic Mechanisms Electrochemical Simulation in Weakly Supported Media Hydrodynamic Voltammetry Two-Dimensional Systems: Microdisc Electrodes Heterogeneous Surfaces Appendix A: Review of C++ Appendix B: Microdisc Program Readership: Graduate students pursuing electrochemistry and electroanalytical studies, as well as researchers and professionals working in the area. Key Features: The first ever textbook teaching experimental electrochemists how to simulate Shows how to quantitatively model voltammetry Written from the Compton Group (Oxford University) with ample experience of electrochemical simulation Keywords: Simulation; Digital Simulation; Numerical Simulation; Electrochemistry; Voltammetry

The field of electrochemical measurement, with respect to thermodynamics, kinetics and analysis, is widely recognised but the subject can be unpredictable to the novice, even if they have a strong physical and chemical background, especially if they wish to pursue quantitative measurements. Accordingly, some significant experiments are, perhaps wisely, never attempted, while the literature is sadly replete with flawed attempts at rigorous voltammetry. This book presents problems and worked solutions for a wide range of theoretical and experimental subjects in the field of voltammetry. The reader is assumed to have knowledge up to a Master's level of physical chemistry, but no exposure to electrochemistry in general, or voltammetry in particular, is required. The problems included range in difficulty from senior undergraduate to research level, and develop important practical approaches in voltammetry. The problems presented in the earlier chapters focus on the fundamental theories of thermodynamics, electron transfer and diffusion. Voltammetric experiments and their analysis are then considered, including extensive problems on both macroelectrode and microelectrode voltammetry. Convection, hydrodynamic electrodes, homogeneous kinetics, adsorption and electroanalytical applications are discussed in the later chapters, as well as problems on two rapidly developing fields of voltammetry: weakly supported media and nanoscale electrodes. There is huge interest in the experimental procedure of voltammetry at present, and yet no dedicated question and answer book with exclusive voltammetric focus exists, in spite of the inherent challenges of the subject. This book aims to fill that niche.

The power of electrochemical measurements in respect of thermodynamics, kinetics and analysis is widely recognized but the subject can be unpredictable to the novice even if they have a strong physical and chemical background, especially if they wish to pursue quantitative measurements. Accordingly, some significant experiments are perhaps wisely never attempted while the literature is sadly replete with flawed attempts at rigorous voltammetry. This textbook considers how to go about designing, explaining and interpreting experiments centered around various forms of voltammetry (cyclic, microelectrode, hydrodynamic, and so on). The reader is assumed to have a knowledge to Masters level of physical chemistry but no exposure to electrochemistry in general, or voltammetry in particular. While the book is designed to 'stand alone', references to important research papers are given to provide an entry into the literature. The book gives clear introductions to the theories of electron transfer and of diffusion in its early chapters. These are developed to interpret voltammetric experiments at macro-electrodes before considering microelectrode behavior. A subsequent chapter introduces convection and describes hydrodynamic electrodes. Later chapters describe the voltammetric measurement of homogeneous kinetics, the study of adsorption on electrodes and the use of voltammetry for electroanalysis.

Medicine, chemistry, physics and engineering stand poised to benefit within the next few years from the ingenuity of complex biological structures invented and perfected by nature over millions of years. This book provides both researchers and engineers as well as students of all the natural sciences a vivid insight into the world of bioelectronics and nature's own nanotechnological treasure chamber.

This volume discusses the theoretical fundamentals and potential applications of the original electro-Fenton (EF) process and its most innovative and promising versions, all of which are classified as electrochemical advanced oxidation processes. It consists of 15 chapters that review the latest advances and trends, material selection, reaction and reactor modeling and EF scale-up. It particularly focuses on the applications of EF process in the treatment of toxic and persistent organic pollutants in water and soil, showing highly efficient removal for both lab-scale and pre-pilot setups. Indeed, the EF technology is now mature enough to be brought to market, and this collection of contributions from leading experts in the field constitutes a timely milestone for scientists and engineers.

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.

Completely revised and updated, Chemical Analysis: Second Edition is an essential introduction to a wide range of analytical techniques and instruments. Assuming little in the way of prior knowledge, this text carefully guides the reader through the more widely used and important techniques, whilst avoiding excessive technical detail. Provides a thorough introduction to a wide range of the most important and widely used instrumental techniques Maintains a careful balance between depth and breadth of coverage Includes examples, problems and their solutions Includes coverage of latest developments including supercritical fluid chromatography and capillary electrophoresis