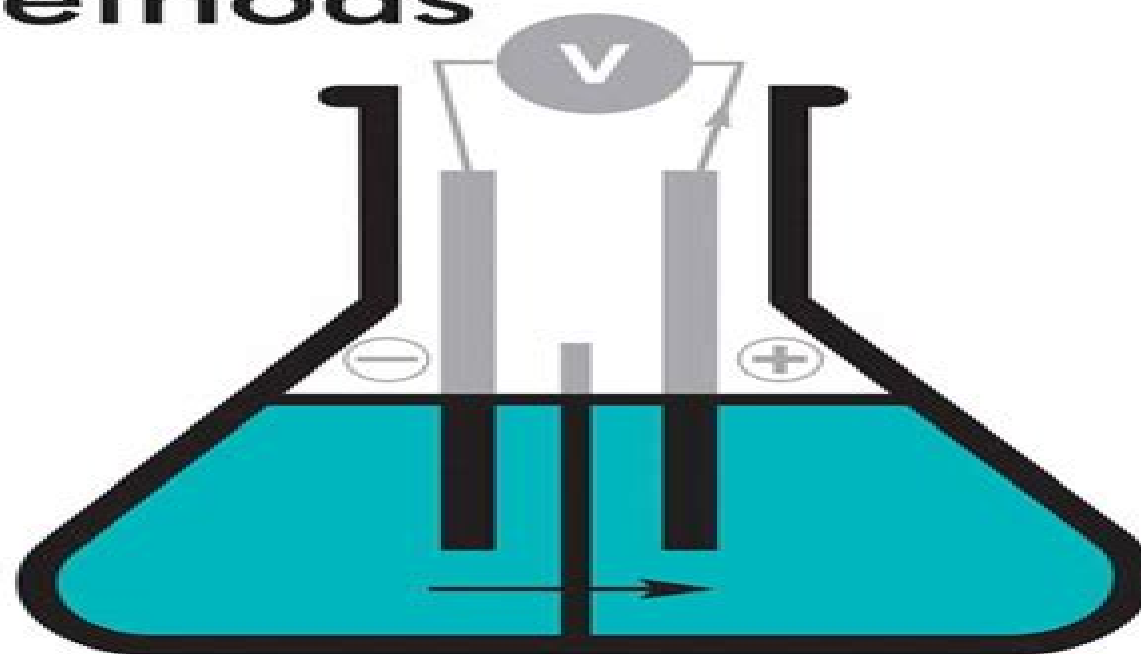




Principles of Electroanalytical Methods



T. Riley
C. Tomlinson

Principles Of Electroanalytical Methods

D.R. Crow



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Electroanalytical Chemistry Gary A. Mabbott, 2020-03-04 Provides a strong foundation in electrochemical principles and best practices Written for undergraduate majors in chemistry and chemical engineering this book teaches the basic principles of electroanalytical chemistry and illustrates best practices through the use of case studies of organic reactions and catalysis using voltammetric methods and of the measurement of clinical and environmental analytes by potentiometric techniques It provides insight beyond the field of analysis as students address problems arising in many areas of science and technology The book also emphasizes electrochemical phenomena and conceptual models to help readers understand the influence of experimental conditions and the interpretation of results for common potentiometric and voltammetric methods Electroanalytical Chemistry Principles Best Practices and Case Studies begins by introducing some basic concepts in electrical phenomena It then moves on to a chapter that examines the potentiometry of oxidation reduction processes followed by another on the potentiometry of ion selective electrodes Other sections look at applications of ion selective electrodes controlled potential methods case studies in controlled potential methods and instrumentation The book also features several appendixes covering Ionic Strength Activity and Activity Coefficients The Nicolsky Eisenman Equation The Henderson Equation for Liquid Junction Potentials Selected Standard Electrode Potentials and The Nernst Equation Derivation Introduces the principles of modern electrochemical sensors and instrumental chemical analysis using potentiometric and voltammetric methods Develops conceptual models underlying electrochemical phenomena and useful equations Illustrates best practice with short case studies of organic reaction mechanisms using voltammetry and quantitative analysis with ion selective electrodes Offers instructors the opportunity to select focus areas and tailor the book to their course by providing a collection of shorter texts each dedicated to a single field Intended as one of a series of modules for teaching undergraduate courses in instrumental chemical analysis Electroanalytical Chemistry Principles Best Practices and Case Studies is an ideal textbook for undergraduate majors in chemistry and chemical engineering taking instrumental analysis courses It would also benefit professional chemists who need an introduction to potentiometry or voltammetry

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students and scientists to successful experiments and applications of modern electroanalytical techniques It is written for chemists biochemists biologists environmental and materials scientists physicists medical scientists and most importantly students of all branches of science The book does not require any specialization in electrochemistry A basic knowledge of chemistry and physics is sufficient Electroanalytical techniques give access to a variety of the most important information on chemical biochemical and physical systems This book provides the necessary theoretical background of electrochemistry and the most frequently used measuring techniques Special attention is given to experimental details and data evaluation

Industrial Electrochemistry D. Pletcher, F.C. Walsh, 1990-02-28 Table of Contents Preface Symbols 1 Fundamental concepts 1 2 Electrochemical engineering 60 3 The chlor alkali industry 173 4 The extraction refining and production of metal 210 5 Other inorganic electrolytic processes 249 6 Organic electrosynthesis 294 7 Water purification effluent treatment and recycling of industrial process streams 331 8 Metal finishing 385 9 Metals and materials processing 451 10 Corrosion and its control 481 11 Batteries and fuel cells 543 12 Electrochemical sensors and monitoring techniques 596 Index 639

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