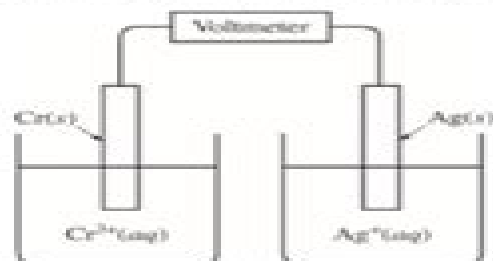


ELECTROCHEMISTRY AP PROBLEMS

2018 AP[®] CHEMISTRY FREE-RESPONSE QUESTIONS



6. A student sets up a galvanic cell at 298 K that has an electrode of $\text{Ag}(\text{s})$ immersed in a 1.0 M solution of $\text{Ag}^{+}(\text{aq})$ and an electrode of $\text{Cr}(\text{s})$ immersed in a 1.0 M solution of $\text{Cr}^{3+}(\text{aq})$, as shown in the diagram above.
- (a) The student measures the voltage of the cell shown above and discovers that it is zero. Identify the missing component of the cell, and explain its importance for obtaining a nonzero voltage.

Half-Reaction	E° (V)
$\text{Ag}^{+}(\text{aq}) + e^{-} \rightarrow \text{Ag}(\text{s})$	+ 0.80
$\text{Cr}^{3+}(\text{aq}) + 3 e^{-} \rightarrow \text{Cr}(\text{s})$	?

- (b) The student adds the missing component to the cell and measures E_{cell}° to be +1.54 V. As the cell operates, Ag^{+} ions are reduced. Use this information and the information in the table above to do the following.
- Calculate the value of E° for the half-reaction $\text{Cr}^{3+}(\text{aq}) + 3 e^{-} \rightarrow \text{Cr}(\text{s})$.
 - Write the balanced net-ionic equation for the overall reaction that occurs as the cell operates.
 - Calculate the value of ΔG° for the overall cell reaction in $\text{kJmol}_{\text{cell}}^{-1}$.

Ap Electrochemistry Problems

Dieter Britz



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edition of *Electrochemical Methods* has been extensively revised to reflect the evolution of electrochemistry over the past two decades highlighting significant developments in the understanding of electrochemical phenomena and emerging experimental tools while extending the book's value as a general introduction to electrochemical methods. This authoritative resource for new students and practitioners provides must-have information crucial to a successful career in research. The authors focus on methods that are extensively practiced and on phenomenological questions of current concern. This latest edition of *Electrochemical Methods* contains numerous problems and chemical examples with illustrations that serve to illuminate the concepts contained within in a way that will assist both student and mid-career practitioner. Significant updates and new content in this third edition include: An extensively revised introductory chapter on electrode processes designed for new readers coming into electrochemistry from diverse backgrounds. New chapters on steady-state voltammetry at ultramicroelectrodes, inner-sphere electrode reactions and electrocatalysis, and single-particle electrochemistry. Extensive treatment of Marcus kinetics as applied to electrode reactions, a more detailed introduction to migration and expanded coverage of electrochemical impedance spectroscopy. The inclusion of Lab Notes in many chapters to help newcomers with the transition from concept to practice in the laboratory. The new edition has been revised to address a broader audience of scientists and engineers designed to be accessible to readers with a basic foundation in university chemistry, physics, and mathematics. It is a self-contained volume developing all key ideas from the fundamental principles of chemistry and physics. Perfect for senior undergraduate and graduate students taking courses in electrochemistry, physical and analytical chemistry, this is also an indispensable resource for researchers and practitioners working in fields including electrochemistry and electrochemical engineering, energy storage and conversion, analytical chemistry, and sensors.

Digital Simulation in Electrochemistry Dieter Britz, 2005-02-22. This book is an extensive revision of the earlier 2nd Edition with the same title of 1988. The book has been rewritten in I hope a much more didactic manner. Subjects such as discretisations or methods for solving ordinary differential equations are prepared carefully in early chapters and assumed in later chapters so that there is clearer focus on the methods for partial differential equations. There are many new examples and all programs are in Fortran 90/95 which allows a much clearer programming style than earlier Fortran versions. In the years since the 2nd Edition much has happened in electrochemical digital simulation. Problems that ten years ago seemed insurmountable have been solved such as the thin reaction layer formed by very fast homogeneous reactions or sets of coupled reactions. Two-dimensional simulations are now commonplace and with the help of unequal intervals, conformal maps, and sparse matrix methods, these too can be solved within a reasonable time. Techniques have been developed that make simulation much more efficient so that accurate results can be achieved in a short computing time. Stable higher-order methods have been adapted to the electrochemical context. The book is accompanied on the webpage www.springerlink.com/openurl.asp?genre=issue&issn=1616-6361 volume 666 by a number of ample procedures and programs all in Fortran 90/95. These have all been veri-

edasfaraspossible While some errors might remain they are hopefully very few Modern Aspects of Electrochemistry Brian E. Conway, Ralph E. White, 2006-04-18 Recognized experts present incisive analyses of both fundamental and applied problems in this continuation of a highly acclaimed series Topics in Number 35 include Impedance spectroscopy with specific applications to electrode processes involving hydrogen Fundamentals and contemporary applications of electroless metal deposition The development of computational electrochemistry and its application to electrochemical kinetics Analysis of electrolyte solutions at high concentrations Applications of the Born theory to solvent polarization by ions and its extensions to treatment of kinetics of ionic reactions LIST **Electrochemistry in Industry** Uziel Landau, 2012-12-06 This volume represents the proceedings of the International Symposium on Electrochemistry in Industry New Directions held at Case Institute of Technology of Case Western Reserve University on October 20-22 1980 This symposium was one of a number held at Case Institute during the 1980 calendar year as part of its centennial celebration The following faculty members from Case Institute of Technology constituted the organizing committee for the symposium Uziel Landau Chairman Associate Professor of Chemical Engineering Robert Hehemann Professor of Metallurgy C C Liu Professor of Chemical Engineering Ernest Yeager Director of CLES and Professor of Chemistry All lectures at this symposium were by invitation The manuscripts as received for all but two of the lectures are herein published in the order of presentation Discussion submitted by participants in written form appears at the end of each paper Part of the panel discussion on Future Trends in Major Electrochemical Industries has also been included in this volume CONTENTS INTRODUCTION 1 The Case Institute of Technology Centennial Celebration Case Laboratories for Electrochemical Studies THEME AND OBJECTIVES OF THE CONFERENCE Ernest Yeager 3 I Overview of Electrochemical Industries Catalysis in Electrochemistry The Outlook for the Electrochemical Industry 5 V de Nora Dimensionally Stable Anodes 19 H B Beer Oxygen Electrodes for Industrial Electrolysis and 29 Electrochemical Power Generation E Yeager II *The Molecular Basis of Bacterial Metabolism* Günter Hauska, Rudolf K. Thauer, 2012-12-06 The present volume contains 17 lectures of the 41 st Mosbach Colloquium of the Gesellschaft für Biologische Chemie held from April 5-7 1990 on the topic The Molecular Basis of Bacterial Metabolism From the beginning it was not the intention of the organizers to present a comprehensive account but rather to select new exciting progress on sometimes exotic reactions of specifically bacterial mainly anaerobic metabolism Members of our society had contributed to this progress to an extent that greatly stimulated the scientific exchange with international colleagues during the days in Mosbach The editors hope that this stimulation will be conveyed to the readers of the articles which reach from the biochemistry of methanogenesis via anaerobic radical reactions metal biochemistry in hydrogen and nitrogen metabolism conversions of light and redox energy to the regulation of metabolic adaptation and the attempts to bioengineer novel pathways for the degradation of xenobiotics We believe that the book represents a highly progressive field of overlapping disciplines comprising microbiology and molecular genetics chemistry of biomimetic interest and biophysics and that it gives

insight into the impact modern technologies have on microbiological research today The colloquium was generously supported by the Deutsche Forschungsgemeinschaft the Paul Martini Stiftung and the Fonds für Biologische Chemie A Trebst G Schafer and D Oesterhelt were a great help in preparing the program and we wish to thank them for their advice

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