

Additional Exercises: Galvanic Cell

1. Fill in the table below regarding the redox process in a galvanic cell.

Redox Process	Definition in terms of electron movement	Occurs at which half-cell
Oxidation	<i>Loss of electron</i>	<i>Anode</i>
Reduction	<i>Gain of electron</i>	<i>Cathode</i>

2. For each of the following pair of electrodes, determine the:

- cathode and anode
- half-reactions at the cathode and anode
- cell notation
- the standard cell voltage

- a) Cu & Co

Cathode: Cu, reaction: $\text{Cu}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{Cu}(\text{s})$

Anode: Co, reaction: $\text{Co}(\text{s}) \rightarrow \text{Co}^{2+}(\text{aq}) + 2\text{e}^-$

Cell notation: $\text{Co}(\text{s}) | \text{Co}^{2+}(\text{aq}) || \text{Cu}^{2+}(\text{aq}) | \text{Cu}(\text{s})$

$E^\circ = 0.34\text{V} - (-0.28\text{V}) = 0.62\text{V}$

- b) Zn & Ag

Cathode: Ag, reaction: $\text{Ag}^+(\text{aq}) + \text{e}^- \rightarrow \text{Ag}(\text{s})$

Anode: Zn, reaction: $\text{Zn}(\text{s}) \rightarrow \text{Zn}^{2+}(\text{aq}) + 2\text{e}^-$

Cell notation: $\text{Zn}(\text{s}) | \text{Zn}^{2+}(\text{aq}) || \text{Ag}^+(\text{aq}) | \text{Ag}(\text{s})$

$E^\circ = 0.80\text{V} - (-0.76\text{V}) = 1.56\text{V}$

- c) Mg & Al

Cathode: Al, reaction: $\text{Al}^{3+}(\text{aq}) + 3\text{e}^- \rightarrow \text{Al}(\text{s})$

Anode: Mg, reaction: $\text{Mg}(\text{s}) \rightarrow \text{Mg}^{2+}(\text{aq}) + 2\text{e}^-$

Cell notation: $\text{Mg}(\text{s}) | \text{Mg}^{2+}(\text{aq}) || \text{Al}^{3+}(\text{aq}) | \text{Al}(\text{s})$

$E^\circ = -1.66\text{V} - (-2.37\text{V}) = 0.71\text{V}$

- d) Pb & Zn

Cathode: Pb, reaction: $\text{Pb}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{Pb}(\text{s})$

Anode: Zn, reaction: $\text{Zn}(\text{s}) \rightarrow \text{Zn}^{2+}(\text{aq}) + 2\text{e}^-$

Cell notation: $\text{Zn}(\text{s}) | \text{Zn}^{2+}(\text{aq}) || \text{Pb}^{2+}(\text{aq}) | \text{Pb}(\text{s})$

$E^\circ = -0.13\text{V} - (-0.76\text{V}) = 0.63\text{V}$

- e) Mg & Cu

Cathode: Cu, reaction: $\text{Cu}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{Cu}(\text{s})$

Anode: Mg, reaction: $\text{Mg}(\text{s}) \rightarrow \text{Mg}^{2+}(\text{aq}) + 2\text{e}^-$

Cell notation: $\text{Mg}(\text{s}) | \text{Mg}^{2+}(\text{aq}) || \text{Cu}^{2+}(\text{aq}) | \text{Cu}(\text{s})$

$E^\circ = 0.34\text{V} - (-2.37\text{V}) = 2.71\text{V}$

Electrochemistry Exercise Answers

Sydney B. Newell



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Physical Chemistry for JEE Advanced: Part 2, 3E (Free Sample) K. S. Verma, 2022-05-19 Physical Chemistry for JEE Advanced Part 2 a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of physical chemistry from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers

Modern Aspects of Electrochemistry 40 Ralph E. White, 2010-04-28 This volume begins with a tribute to Dr Brian E Conway by Dr John O M Bockris which is followed by six chapters The topics covered are state of the art Polymer Electrolyte Membrane PEM fuel cell bipolar plates use of graphs in electrochemical reaction networks nano materials in lithium ion batteries direct methanol fuel cells two chapters and the last chapter presents simulation of polymer electrolyte fuel cell catalyst layers David and Valerie Bloomfield begin the first chapter with a discussion of the difficulties encountered when confronting bipolar plate development and state that the problems stem from the high corrosive nature of phosphoric acid The water problems are mitigated but the oxidation problems increase Bipolar plates are still not cheap reliable or durable In Chapter 2 Thomas Z Fahidy reviews analysis of variance ANOVA and includes one way two way three way classification and Latin squares observation methods He moves on to a discussion of the applications of the analysis of covariance ANCOVA and goes over certain variables such as velocity velocity and pressure drop and product yields in a batch and flow electrolyzer His conclusion is that proper statistical techniques are time savers which can save the experimenter and the process analyst considerable time and effort in trying to optimize the size of statistically meaningful experiments *Solved*

Problems in Electrochemistry for Universities and Industry Dominique L. Piron, 2004 **Electrochemical and Metallurgical Industry** Eugene Franz Roeber, Howard Coon Parmelee, 1906 Chemical Principles Steven S. Zumdahl, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples **Physical Chemistry** David S. Eisenberg, Donald M. Crothers, 1979 *Modern Aspects of Electrochemistry* John O'M. Bockris, 1954 Electrochemical Methods: Fundamentals and Applications, 3e Student Solutions Manual Cynthia G. Zoski, John A. Leddy, Allen J. Bard, Larry R. Faulkner, Henry S. White, 2024-11-04 Provides students with solutions to problems in the 3rd edition of the classic textbook Electrochemical Methods Fundamentals and Applications Electrochemical Methods is a popular textbook on electrochemistry that takes the reader from the most basic chemical and physical principles through fundamentals of thermodynamics kinetics and mass

transfer all the way to a thorough treatment of all important experimental methods Holistically it offers comprehensive coverage of all important topics in the field To aid in reader comprehension exercises are included at the end of each chapter which extend concepts introduced in the text or show how experimental data are reduced to fundamental results This book provides worked solutions for many of the end of chapter exercises and is a key resource for any student who makes use of the original textbook

Principles of Modern Chemistry David W. Oxtoby, H. P. Gillis, Norman H. Nachtrieb, 2002 This successful textbook continues to address students in honours and high mainstream general chemistry courses The chapters in the fourth edition are organised within larger units to emphasise the conceptual structure of chemistry

A Guide to Problems in Modern Electrochemistry 1 Maria E. Gamboa-Aldeco, Robert J. Gale, 2001-09-30 It has been always an incentive for students to find whether his/her efforts to solve exercises give correct results or to find tips for problems that he/she finds more difficult These are the main reasons for the appearance of the present book As part of the textbook Modern Electrochemistry 1 Ionics A Guide to Problems in Modern Electrochemistry Part 1 Ionics compiles many of the solutions to the exercises and problems presented in the text as well as many new problems

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Interactive Multimedia Ioannis Deliyannis, 2012-03-07 Interactive multimedia is clearly a field of fundamental research

social educational and economical importance as it combines multiple disciplines for the development of multimedia systems that are capable to sense the environment and dynamically process edit adjust or generate new content For this purpose ideas theories methodologies and inventions are combined in order to form novel applications and systems This book presents novel scientific research proven methodologies and interdisciplinary case studies that exhibit advances under Interfaces and Interaction Interactive Multimedia Learning Teaching and Competence Diagnosis Systems Interactive TV Film and Multimedia Production and Video Processing The chapters selected for this volume offer new perspectives in terms of strategies tested practices and solutions that beyond describing the state of the art may be utilised as a solid basis for the development of new interactive systems and applications Practical Exercises in Electrochemistry Felix Oettel,1897

Answer Book for Unsolved Electrochemistry Problems Dominique L. Piron,École polytechnique (Montréal, Québec). Département de génie physique,2004 *Longman Preparation Course for the TOEFL Test* Deborah Phillips,2006 Longman Preparation Course for the TOEFL Test Next Generation IBT a book CD ROM package written by Deborah Phillips gives students all the tools they need to succeed on the new TOEFL integrated skills test Providing both a comprehensive language skills course and a wealth of practice for all sections of the test the Longman Preparation Course is appropriate for courses in TOEFL Test preparation or as a supplement to more general English courses Note You must have the audio program to use the listening material the Skills Practice the Mini Tests and the Complete Tests in the textbook Click here to order the audio program on CD or audiocassette The Student Book features Authentic material for all the new types of passages and questions on the test Diagnostic pre tests and post tests that allow students to identify strengths and weaknesses and assess improvement in each section Practice sections for the four skills Reading provides practice exercises in the new test formats including filling in a table or chart and paraphrasing Listening provides authentic conversations between two people in an academic setting and academic lectures with new questions about a speaker s attitude or purpose Speaking includes personal and expository tasks and integrated tasks Writing consists of expository and integrated tasks reading listening writing Eight mini tests that preview the test s integrated four skills format Two complete practice tests that familiarize students with the actual test format and timing The CD ROM features Completelydifferent material from the Student Book Practice sections for all parts of the test including speaking Eight mini tests and two complete tests Pop up explanations for all items on the CD ROM Easy to use scoring and record keeping to monitor progress Chemistry Sydney B. Newell,1980

Basic Concepts in Electrochemistry Polagony Venkateshwarlu,2024-09-30 As you know that electrochemistry is a fascinating subject that plays an important role in our everyday life activities it is the study of chemical processes that cause electrons to move This movement of electrons what we commonly known as electricity Powers many of the devices and systems that are integral to modern living This brilliant book provides a reference for students especially grade X and XII who want to learn basic principles in electrochemistry It is designed to provide fundamental principles of electrochemistry in

simple manner which can be suitable to the needs of students and their better understanding of theoretical and practical applications in electrochemistry. An attempt has been made to discuss about types of electrochemical cells on evolutionary basis from voltaic cell to sodium ion battery. Simple outline has been covered based on structure components and functioning. At the last a great attempt is also made to provide solution for NCERT exercise and some worksheet provided for practice of concepts.

MHT CET Engineering Entrances Prep Guide Chemistry 2022 Aadithi Dalvi, Dr. Chandrashekar Bagawe, 2022-02-24

- 1 The book deals with Chemistry subject for MHT CET entrances
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British Book News, 1972

Contemporary Chemical Analysis Judith F. Robinson, Kenneth A. Robinson, 1998. This book provides a readable yet rigorous introduction to analytical methods with a focus on problem solving skills. It stresses the fundamental concepts of chemical analysis and through examples from current journals and other science media shows how the principles and practice of analytical chemistry are used to produce answers to questions in all areas of scientific study and practice. Features a balance of topics that is closer to contemporary analytical practice than those covered by other books. Introduces the tools that are ubiquitous in analytical chemistry e.g. statistics sampling and sample preparation. Discusses methods depending on chemical kinetics which are so widely used in medicine and biology. Features a number of problems that call for the use of a spreadsheet to

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