

1) What is meant by 'limiting molar conductivity'?

The molar conductivity of a solution at infinite dilution is called limiting molar conductivity and is represented by the symbol Λ_m .

2) Express the relation between conductivity and molar conductivity of a solution held in a cell. Explain the terms.

Answer:

$$\Lambda_m = \frac{\kappa}{c} = \frac{\text{Conductivity}}{\text{Concentration}}$$

3) Given that the standard electrode potentials (E°) of metals are :

$\text{K}^+/\text{K} = -2.93 \text{ V}$, $\text{Ag}^+/\text{Ag} = 0.80 \text{ V}$, $\text{Cu}^{2+}/\text{Cu} = 0.34 \text{ V}$,

$\text{Mg}^{2+}/\text{Mg} = -2.37 \text{ V}$, $\text{Cr}^{3+}/\text{Cr} = -0.74 \text{ V}$, $\text{Fe}^{2+}/\text{Fe} = -0.44 \text{ V}$.

Arrange these metals in increasing order of their reducing power.



More negative the value of standard electrode potentials of metals is, more will be the reducing power.

4) Two half-reactions of an electrochemical cell are given below :

$\text{MnO}_4^- (\text{aq}) + 8\text{H}^+ (\text{aq}) + 5\text{e}^- \rightarrow \text{Mn}^{2+} (\text{aq}) + 4\text{H}_2\text{O} (\text{l})$, $E^\circ = 1.51 \text{ V}$

$\text{Sn}^{2+} (\text{aq}) \rightarrow \text{Sn}^{4+} (\text{aq}) + 2\text{e}^-$, $E^\circ = +0.15 \text{ V}$.

Construct the redox reaction equation from the two half-reactions and calculate the cell potential from the standard potentials and predict if the reaction is reactant or product favoured.

The reactions can be represented at anode and at cathode in the following ways :

At anode (oxidation) :



At cathode (reduction) :



Electrochemistry Problems And Answers

Ying Liu



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to Aqueous Electrolyte Solutions Margaret Robson Wright, 2007-06-05 An Introduction to Aqueous Electrolyte Solutions is a comprehensive coverage of the subject including the development of key concepts and theory that focus on the physical rather than the mathematical aspects. Important links are made between the study of electrolyte solutions and other branches of chemistry, biology and biochemistry making it a useful cross reference tool for students studying this important area of electrochemistry. Carefully developed throughout each chapter includes intended learning outcomes and worked problems and examples to encourage student understanding of this multidisciplinary subject. A comprehensive introduction to aqueous electrolyte solutions including the development of key concepts and theories emphasises the connection between observable macroscopic experimental properties and interpretations made at the molecular level. Key developments in concepts and theory explained in a descriptive manner to encourage student understanding includes worked problems and examples throughout. An invaluable text for students taking courses in chemistry and chemical engineering this book will also be useful for biology, biochemistry and biophysics students required to study electrochemistry.

A Workbook of Electrochemistry John Bockris, 2012-12-06 In this book the objective has been to set down a number of questions, largely numerical problems, to help the student of electrochemical science. No collection of problems in electrochemistry has previously been published. The challenge which faces the authors of such a book is the breadth of the material in modern electrochemistry and the diversity of backgrounds and needs of people who may find a problems book in electrochemistry to be of use. The general intention for Chapters 2-11 has been to give the first ten questions at a level which can be dealt with by students who are undergoing instruction in the science of electrochemistry but have not yet reached graduate standard in it. The last two questions in Chapters 2-11 have been chosen at a more advanced standard corresponding to that expected of someone with knowledge at the level of a Ph.D. degree in electrochemistry.

Electrochemistry P.H. Rieger, 2012-12-06 It has been fashionable to describe electrochemistry as a discipline at the interface between the branches of chemistry and many other sciences. A perusal of the table of contents will affirm that view. Electrochemistry finds applications in all branches of chemistry as well as in biology, biochemistry and engineering. Electrochemistry gives us batteries and fuel cells, electroplating and electrosynthesis and a host of industrial and technological applications which are barely touched on in this book. However, I will maintain that electrochemistry is really a branch of physical chemistry. Electrochemistry grew out of the same tradition which gave physics the study of electricity and magnetism. The reputed founders of physical chemistry, Arrhenius, Ostwald and van't Hoff, made many of their contributions in areas which would now be regarded as electrochemistry. With the post-World War II capture of physical chemistry by chemical physicists, electrochemists have tended to retreat into analytical chemistry, thus defining themselves out of a great tradition. G.N. Lewis defined physical chemistry as the study of that which is interesting. I hope that the readers of this book will find that electrochemistry qualifies.

Physical Chemistry Through Problems S. K. Dogra, S. Dogra, 1984

Modern Electrochemistry 2A John O'M. Bockris, Amulya K.N. Reddy, Maria E.

Gamboa-Aldeco,2007-05-08 This book had its nucleus in some lectures given by one of us J O M B in a course on electrochemistry to students of energy conversion at the University of Pennsylvania It was there that he met a number of people trained in chemistry physics biology metallurgy and materials science all of whom wanted to know something about electrochemistry The concept of writing a book about electrochemistry which could be understood by people with very varied backgrounds was thereby engendered The lectures were recorded and written up by Dr Klaus Muller as a 293 page manuscript At a later stage A K N R joined the effort it was decided to make a fresh start and to write a much more comprehensive text Of methods for direct energy conversion the electrochemical one is the most advanced and seems the most likely to become of considerable practical importance Thus conversion to electrochemically powered transportation systems appears to be an important step by means of which the difficulties of air pollution and the effects of an increasing concentration in the atmosphere of carbon dioxide may be met Corrosion is recognized as having an electrochemical basis The synthesis of nylon now contains an important electrochemical stage Some central biological mechanisms have been shown to take place by means of electrochemical reactions A number of American organizations have recently recommended greatly increased activity in training and research in electrochemistry at universities in the United States *Molecular*

Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds A.J.L. Pombeiro, J.A. McCleverty, 2012-02-02 The use of electrochemical techniques by chemists particularly those who regard themselves as inorganic coordination chemists has undergone a very rapid growth in the last 15-20 years The techniques as classically applied to inorganic species had their origins in analytical chemistry and the methodology had assumed until the mid 60s more importance than the chemistry However the growth of interest in coordination compounds including organometallic complexes having unusually rich of electron transfer in bioinorganic redox properties and in the understanding of species has propelled electrochemistry into the foreground of potentially readily available techniques for application to a very wide range of problems of interest to those chemists This growth has been fuelled additionally by the availability of relatively cheap equipment of growing sophistication and by an increase in the inorganic chemists general knowledge of physical electrochemistry In particular with increasing availability and sophistication of equipment kinetic problems are now being addressed and the range of electrode types and configuration and solvents has been greatly expanded Furthermore the rapid expansion of interest in biological problems has opened new avenues in functionalisation of electrodes in the development of sensory devices and in a sense a return to the analytical base of the science using novel and multidisciplinary techniques drawing on synthesis chemistry of and electronic microengineering The drive towards increasing use of microcomputer controlled data analysis and the development of microelectrodes has opened exciting new avenues for the exploration of chemical reactions involving electron transfer processes Topics in Organic Electrochemistry W.E. Britton, A.J. Fry, 2013-06-29 *The Global Climate Change* Andrzej Więckowski, 2001

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