



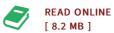
Electrochemical Systems, 3rd Edition

By Newman, John; Thomas-Alyea, Karen E.

Wiley-Interscience, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PREFACE TO THE THIRD EDITION.PREFACE TO THE SECOND EDITION.PREFACE TO THE FIRST EDITION.1 INTRODUCTION.1.1 Definitions.1.2 Thermodynamics and Potential.1.3 Kinetics and Rates of Reaction.1.4 Transport.1.5 Concentration Overpotential and the Diffusion Potential.1.6 Overall Cell Potential.Problems.Notation.PART A: THERMODYNAMICS OF ELECTROCHEMICAL CELLS.2 THERMODYNAMICS IN TERMS OF ELECTROCHEMICAL POTENTIALS.2.1 Phase Equilibrium.2.2 Chemical Potential and Electrochemical Potential.2.3 Definition of Some Thermodynamic Functions.2.4 Cell with Solution of Uniform Concentration.2.5 Transport Processes in Junction Regions.2.6 Cell with a Single Electrolyte of Varying Concentration.2.7 Cell with Two Electrolytes, One of Nearly Uniform Concentration.2.8 Cell with Two Electrolytes, Both of Varying Concentration.2.9 Standard Cell Potential and Activity Coefficients.2.10 Pressure Dependence of Activity Coefficients.2.11 Temperature Dependence of Cell

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