

Properties Of Solutions Electrolytes And Non Electrolytes

Green Functions in Electrochemistry
Electrolytes: Advances in Research and Application: 2011 Edition
Chemistry of Marine Water and Sediments
Modern Aspects of Electrochemistry
Viscosity of Electrolytes and Related Properties
Thermodynamic Properties of Nonelectrolyte Solutions
Properties Of Water And Steam: Proceedings Of The 11th International conference
The Properties of Electrically Conducting Systems
The Physical Properties of Colloidal Solutions
Innovations in Chemical Biology
Electrolytes at Interfaces
Biopolymer Electrolytes
Ions in Solution and Their Solvation
Aqueous Systems at Elevated Temperatures and Pressures
Bulletin of the Johns Hopkins Hospital
Electro Chemistry
Modeling of Thermodynamic Properties in Biological Solutions
Electrolyte Solutions
Physical Chemistry
Solution Chemistry
Research Progress
The New Encyclopaedia Britannica: Macropaedia (19 v.)
Handbook of Industrial Crystallization
Prediction of Transport and Other Physical Properties of Fluids
Applied Physical Pharmacy, Third Edition
Theories of Scientific Progress
the treatise on the theory of solution
Classical Thermodynamics of Non-Electrolyte Solutions
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Electrochemical Systems
Electrolytes
Dielectrophoresis
Properties of Aqueous Solutions of Electrolytes
Ionic Soft Matter: Modern Trends in Theory and Applications
Physico-Chemical Analysis of Molten Electrolytes
Physical Chemistry for the Biosciences
Principles of Thermodynamics

Green Functions in Electrochemistry

Ideal for one- or two-semester courses that assume elementary knowledge of calculus, This text presents the fundamental concepts of thermodynamics and applies these to problems dealing with properties of materials, phase transformations, chemical reactions, solutions and surfaces. The author utilizes principles of statistical mechanics to illustrate

Electrolytes: Advances in Research and Application: 2011 Edition

What is the nature of scientific progress and what makes it possible? When we look back at the scientific theories of the past and compare them to the state of science today, there seems little doubt that we have made progress. But is it a continuous process which gradually incorporates past successes into present theories, or are entrenched theories overthrown by superior competitors in a revolutionary manner? Theories of Scientific Progress is the ideal introduction to this topic. It is clearly organized, with suggestions for further reading that point the way to both primary texts and secondary literature. It will be essential reading for students of the history and philosophy of science.

Chemistry of Marine Water and Sediments

Experts from academic and industrial laboratories worldwide present the latest developments in the field. Highlights include discussion of experimental results from the last decade of interfacial studies, a quantum-mechanical treatment of electrode processes, an in-depth look at underpotential dispo

Modern Aspects of Electrochemistry

The new edition of the cornerstone text on electrochemistry Spans all the areas of electrochemistry, from the basics of thermodynamics and electrode kinetics to transport phenomena in electrolytes, metals, and semiconductors. Newly updated and expanded, the Third Edition covers important new treatments, ideas, and technologies while also increasing the book's accessibility for readers in related fields. Rigorous and complete presentation of the fundamental concepts In-depth examples applying the concepts to real-life design problems Homework problems ranging from the reinforcing to the highly thought-provoking Extensive bibliography giving both the historical development of the field and references for the practicing electrochemist.

Viscosity of Electrolytes and Related Properties

Thermodynamic Properties of Nonelectrolyte Solutions

Properties Of Water And Steam: Proceedings Of The 11th International conference

Properties of Aqueous Solutions of Electrolytes is a handbook that systematizes the information on physico-chemical parameters of multicomponent aqueous electrolyte solutions. This important data collection will be invaluable for developing new methods for more efficient chemical technologies, choosing optimal solutions for more effective methods of using raw materials and energy resources, and other such activities. This edition, the first available in English, has been substantially revised and augmented. Many new tables have been added because of a significantly larger list of electrolytes and their properties (electrical conductivity, boiling and freezing points, pressure of saturated vapors, activity and diffusion coefficients). The book is divided into two sections. The first section provides tables that list the properties of binary aqueous solutions of electrolytes, while the second section deals with the methods for calculating their properties in multicomponent systems. All values are given in PSI units or fractional and multiple units. Metrological characteristics of the experimental methods used for the determination of physico-chemical parameters are indicated as a relative error and those of the computational methods as a relative error or a root-mean square deviation.

The Properties of Electrically Conducting Systems

New edition of the overwhelmingly favorite text for the physical chemistry course.

The Physical Properties of Colloidal Solutions

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A complete practice-oriented introduction to physical pharmacy Written to clearly and simply explain how drugs work, this textbook explores the fundamental physicochemical attributes and processes important for understanding how a drug is transformed into a usable product that is administered to a patient to reach its pharmacological target, and then exists the body. Applied Physical Pharmacy, Third Edition begins with a review of the key biopharmaceutics concepts of drug liberation, absorption, distribution, metabolism, and excretion. These concepts, and others, set the framework for the subsequent chapters that describe physicochemical properties and process related to the fate of the drug. Other physical pharmacy topics important to drug formulation are discussed in the chapters that follow, which describe dispersal systems, interfacial phenomena, and rheology. The textbook concludes with an overview of the principles of kinetics that are important for understanding the rates at which many of the processes discussed in previous chapters occur. Chapters in this Third Edition retain the acclaimed learning aids of previous editions, including Learning Objectives, Practice Problems, Key Points, and Clinical Questions. In order to be of greater value to the pharmacy student, more clinical questions have been added, and many tables have been updated with more current products and excipients.

Innovations in Chemical Biology

Electrolytes at Interfaces

Physico-Chemical Analysis of Molten Electrolytes includes selected topics on the measurement and evaluation of physico-chemical properties of molten electrolytes. It describes the features, properties, and experimental measurement of different physico-chemical properties of molten salt systems used as electrolytes for different metal production, metallic layer deposition, as a medium for reactions in molten salts. The physico-chemical properties such as phase equilibria, density (molar volume), enthalpy (calorimetry), surface tension, vapor pressure, electrical conductivity, viscosity, etc. are the most important parameters of electrolytes needed for technological use. For each property the theoretical background, experimental techniques, as well as examples of the latest knowledge and the processing of most important salt systems will be given. The aim of Physico-Chemical Analysis of Molten Electrolytes is not only to present the state of the art on different properties of molten salts systems and their measurement, but also to present the possibilities of modeling molten salt systems, to be able to forecast the properties of an electrolyte mixture from the properties of the pure components in order to avoid experimentally demanding, and in most cases also expensive measurements. This book fills a substantial gap in this field of science. Also documenting the latest research in molten salts chemistry and brings new results and new insights into the study of molten salts systems using the results of X-ray diffraction and XAFS methods, Raman spectroscopy, and NMR measurements. * This book fills a substantial gap in this field of science * Serves as

a invaluable reference for all people working in the field of molten salts chemistry *
Describes fundamentals of the various properties of molten electrolytes

Biopolymer Electrolytes

Classical Thermodynamics of Non-Electrolyte Solutions covers the historical development of classical thermodynamics that concerns the properties of vapor and liquid solutions of non-electrolytes. Classical thermodynamics is a network of equations, developed through the formal logic of mathematics from a very few fundamental postulates and leading to a great variety of useful deductions. This book is composed of seven chapters and begins with discussions on the fundamentals of thermodynamics and the thermodynamic properties of fluids. The succeeding chapter presents the equations of state for the calculation of the thermodynamic behavior of constant-composition fluids, both liquid and gaseous. These topics are followed by surveys of the mixing of pure materials to form a solution under conditions of constant temperature and pressure. The discussion then shifts to general equations for calculation of partial molal properties of homogeneous binary systems. The last chapter considers the approach to equilibrium of systems within which composition changes are brought about either by mass transfer between phases or by chemical reaction within a phase, or by both.

Ions in Solution and Their Solvation

The aim of this book is to provide the reader with a modern presentation of ionic solutions at interfaces, for physical chemists, chemists and theoretically oriented experimentalists in this field. The discussion is mainly on the structural and thermodynamic properties, in relation to presently available statistical mechanical models. Some dynamic properties are also presented, at a more phenomenological level. The initial chapters are devoted to the presentation of some basic concepts for bulk properties: hydrodynamic interactions, electrostatics, van der Waals forces and thermodynamics of ionic solutions in the framework of a particular model: the mean spherical approximation (MSA). Specific features of interfaces are then discussed: experimental techniques such as in-situ X-ray diffraction, STM and AFM microscopy are described. Ions at liquid/air, liquid/metal and liquid/liquid interfaces are considered from the experimental and theoretical viewpoint. Lastly some dynamic (transport) properties are included, namely the self-diffusion and conductance of small colloids (polyelectrolytes and micelles) and the kinetics of solute transfer at free liquid/liquid interfaces.

Aqueous Systems at Elevated Temperatures and Pressures

Bulletin of the Johns Hopkins Hospital

This classic text, originally published in the 1950s, remains a standard reference in the literature of physical chemistry. Its focus on the fundamental properties of electrolyte solutions ensures its enduring relevance, and its substantial body of fact and theory continues to offer vital information for the interpretation of data.

The authors present their material in a pattern of alternate chapters on experiment and theory, featuring strictly experimental techniques of which they had firsthand experience. Their treatment deals primarily with the measurement and interpretation of conductance, chemical potential, and diffusion in solutions of simple electrolytes. Theoretical interpretations are developed in detail, and extensive tables of thermodynamic and transport properties are offered. Chapter topics include properties of ionizing solvents, the limiting mobilities of ions, the measurement of chemical potentials, the measurement of diffusion coefficients, weak electrolytes, the "strong" acids, ion association, the thermodynamics of mixed electrolytes, and more. In addition to the text itself, more than 90 pages of tabulated properties in the appendices make this an indispensable reference for serious researchers in the field.

Electro Chemistry

Solution chemistry deals with liquid solutions in such fields as physical chemistry, chemical physics, molecular biology, statistical mechanics, biochemistry, and biophysics. This book includes experimental investigations of the dielectric, spectroscopic, thermodynamic, transport, or relaxation properties of both electrolytes and non-electrolytes in liquid solutions. The latest research in the world has been selected, gathered and presented here.

Modeling of Thermodynamic Properties in Biological Solutions

Engineers who need to have a better understanding of chemistry will benefit from this accessible book. It places a stronger emphasis on outcomes assessment, which is the driving force for many of the new features. Each section focuses on the development and assessment of one or two specific objectives. Within each section, a specific objective is included, an anticipatory set to orient the reader, content discussion from established authors, and guided practice problems for relevant objectives. These features are followed by a set of independent practice problems. The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics. Numerous worked examples in the text now include Analysis and Synthesis sections, which allow engineers to explore concepts in greater depth, and discuss outside relevance.

Electrolyte Solutions

The book starts with an exposition of the relevant properties of ions and continues with a description of their solvation in the gas phase. The relevant properties of prospective liquid solvents for the ions are dealt with. The process of the transfer of ions from the gas phase into a liquid where they are solvated is then taken care of. Various aspects of the solutions of the ions, such as structural and transport ones and the effects of the ions on the solvent dynamics and structure are then described. In cases where the solvent is a mixture selective solvation takes place and is discussed. The interactions of ions with one another that may lead to ion pairing and with other solutes in the solution as well as their dependence on the solvent are also dealt with. The book concludes with applications of the concepts

expounded previously in fields such as electrochemistry, hydrometallurgy, separation chemistry, biophysics, and synthetic methods. The book contains a large amount of factual information in the form of extensive tables of critically examined data and illustrations of the points made throughout.

Physical Chemistry

V.4 Aqueous solutions of amphiphiles and macromolecules. Author, subject and compound indexes.

Solution Chemistry Research Progress

Thermodynamic Properties of Nonelectrolyte Solutions reviews several of the more classical theories on the thermodynamics of nonelectrolyte solutions. Basic thermodynamic principles are discussed, along with predictive methods and molecular thermodynamics. This book is comprised of 12 chapters; the first of which introduces the reader to mathematical relationships, such as concentration variables, homogeneous functions, Euler's theorem, exact differentials, and method of least squares. The discussion then turns to partial molar quantities, ideal and nonideal solutions, and empirical expressions for predicting the thermodynamic properties of multicomponent mixtures from binary data. The chapters that follow explore binary and ternary mixtures containing only nonspecific interactions; the thermodynamic excess properties of liquid mixtures and ternary alcohol-hydrocarbon systems; and solubility behavior of nonelectrolytes. This book concludes with a chapter describing the use of gas-liquid chromatography in determining the activity coefficients of liquid mixtures and mixed virial coefficients of gaseous mixtures. This text is intended primarily for professional chemists and researchers, and is invaluable to students in chemistry or chemical engineering who have background in physical chemistry and classical thermodynamics.

The New Encyclopaedia Britannica: Macropaedia (19 v.)

Handbook of Industrial Crystallization

This book includes 49 chapters presented as plenary, invited lectures and posters at the conference. Six plenary lectures have published in an issue of Pure and Applied Chemistry, Vol. 79, No. 12, 2007; the titles of these presentations are given as an Annex at the end of the book. I thank all contributors for the preparation of their presentations. It is sad to report that Professor Hitoshi Ohtaki, one of the founders of the Eurasia conferences and contributors passed away on November 5, 2006. Professor Ohtaki enthusiastically promoted international cooperation and took it upon himself to publicize Japanese science to the wider world. His contribution in this book will serve as a memorable contribution to that goal. He will be missed by all of us. This book is dedicated to his memory. Professor Dr. Bilge Sener Editor Memorial Tribute to Professor Dr. Hitoshi Ohtaki Curriculum Vitae of Hitoshi Ohtaki Date of Birth September 16, 1932 Place of Birth Tokyo, Japan Date of Decease November 5, 2006 (at the age of 74) Address 3-9-406

Namiki-2-chome, Kanazawa-ku, Yokohama, Japan Institution Chair Professor of The Research Organization of Science and Engineering, Ritsumeikan University Guest Professor of Yokohama City University Education Bachelor of Science, Nagoya University, 1955 Master of Science, Nagoya University, 1957 Doctor of Science, Nagoya University, 1961 ix x Memorial Tribute to Professor Dr.

Prediction of Transport and Other Physical Properties of Fluids

Crystallization is an important separation and purification process used in industries ranging from bulk commodity chemicals to specialty chemicals and pharmaceuticals. In recent years, a number of environmental applications have also come to rely on crystallization in waste treatment and recycling processes. The authors provide an introduction to the field of newcomers and a reference to those involved in the various aspects of industrial crystallization. It is a complete volume covering all aspects of industrial crystallization, including material related to both fundamentals and applications. This new edition presents detailed material on crystallization of biomolecules, precipitation, impurity-crystal interactions, solubility, and design. Provides an ideal introduction for industrial crystallization newcomers Serves as a worthwhile reference to anyone involved in the field Covers all aspects of industrial crystallization in a single, complete volume

Applied Physical Pharmacy, Third Edition

The most important processes on the Earth`s surface occur in the Ocean where materials and energy are primarily exchanged. In the case of marine chemistry different fields of chemistry from organic to inorganic as well as thermodynamics and biochemistry are involved. Analytical Chemistry is a very important tool for the quantification of biogeochemical processes by providing correct and even more sophisticated methodologies. These are often directly applied 'in situ', in order to detect trace and ultra-trace natural and anthropogenic substances. Kinetic and thermodynamic studies allow us to establish whether the process occurs. Once discovered it is then possible to build up general models for environmental systems. This book gathers many aspects with the aim of creating a general picture of the chemical processes occurring in the marine environment

Theories of Scientific Progress

Appendix C: The Base Quantities in the SI System of Units -- Appendix D: Derived Physical Quantities, their Defining Equation or Law and Dimensions -- Appendix E: Diffusion Coefficients for Molecules and Ions in Water at 298 K -- Appendix F: Diffusion Coefficients for Bio-Particles in Water at 293 K -- Appendix G: Viscosity and Surface Tension Values for Liquids at 293 K -- Appendix H: Activity Coefficients for Common Compounds that Dissociate into Ions in Solution -- Appendix I: Electrical Mobility of Ions at 25 °C in Dilute Aqueous Solution -- Appendix J: Buffering Systems and their pH Buffering Range -- Appendix K: Composition of 1 L of Human Blood -- Appendix L: Blood Cells, Platelets and Some Pathogenic Bioparticles -- L.1 Blood Fractionation -- L.2 Bacteria -- L.3 Fungal and Protozoal Cells -- L.4 Viruses -- L.5 Prions -- Author Index -- Subject Index -- EULA

the treatise on the theory of solution

Practical Chemical Thermodynamics for Geoscientists covers classical chemical thermodynamics and focuses on applications to practical problems in the geosciences, environmental sciences, and planetary sciences. This book will provide a strong theoretical foundation for students, while also proving beneficial for earth and planetary scientists seeking a review of thermodynamic principles and their application to a specific problem. Strong theoretical foundation and emphasis on applications Numerous worked examples in each chapter Brief historical summaries and biographies of key thermodynamicists—including their fundamental research and discoveries Extensive references to relevant literature

Classical Thermodynamics of Non-Electrolyte Solutions

Aqueous Solutions of Simple Electrolytes

Biopolymer Electrolytes: Fundamentals and Applications in Energy Storage provides the core fundamentals and applications for polyelectrolytes and their properties with a focus on biopolymer electrolytes. Increasing global energy and environmental challenges demand clean and sustainable energy sources to support the modern society. One of the feasible technologies is to use green energy and green materials in devices. Biopolymer electrolytes are one such green material and, hence, have enormous application potential in devices such as electrochemical cells and fuel cells. Features a stable of case studies throughout the book that underscore key concepts and applications Provides the core fundamentals and applications for polyelectrolytes and their properties Weaves the subject of biopolymer electrolytes across a broad range of disciplines, including chemistry, chemical engineering, materials science, environmental science, and pharmaceutical science

The Freezing-point Lowering, Conductivity, and Viscosity of Solutions of Certain Electrolytes in Water

Physical Chemistry of Electrolyte Solutions

Chang's newest text has been shortened, streamlined and optimized for a one-semester introductory course in physical chemistry for students of biosciences. Most students enrolled in this course have taken general chemistry, organic chemistry, and a year of physics and calculus. Only basic skills of differential and integral calculus are required for understanding the equations. For premedical students, this text will form the basis for taking courses like physiology in medical school. For those intending to pursue graduate study in biosciences, the material presented here will serve as an introduction to topics in biophysical chemistry courses, where more advanced texts such as those by Gennis, van Holde, and Cantor & Schimmel are used. The author's aim is to emphasize understanding physical concepts rather than focusing on precise mathematical development or on actual experimental details. The end-of-chapter problems have both

physiochemical and biological applications.

Practical Chemical Thermodynamics for Geoscientists

Basic Concepts of Chemistry

Electrolytes: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Electrolytes. The editors have built Electrolytes: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Electrolytes in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Electrolytes: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Electrochemical Systems

The aim and purpose of this book is a survey of our actual basic knowledge of electrolyte solutions. It is meant for chemical engineers looking for an introduction to this field of increasing interest for various technologies, and for scientists wishing to have access to the broad field of modern electrolyte chemistry.

Electrolytes

Prediction of Transport and Other Physical Properties of Fluids reviews general methods for predicting the transport and other physical properties of fluids such as gases and liquids. Topics covered range from the theory of corresponding states and methods for estimating the surface tension of liquids to some basic concepts of the kinetic theory of gases. Methods of estimating liquid viscosity based on the principle of additivity are also described. This volume is comprised of eight chapters and opens by presenting basic information on gases and liquids as well as intermolecular forces and constitutive and additive properties of chemical compounds. The reader is then introduced to practical methods for computing the values of physico-chemical quantities necessary for designing technological processes. Subsequent chapters focus on the surface tension of liquids and its dependence on molecular properties; the phenomenon of internal friction (viscosity) in fluids; graphical interpolation and extrapolation of liquid viscosity data; and the thermal conductivity of gases and liquids. The final two chapters examine diffusion in gases and liquids, with emphasis on the methods used for estimating the coefficients of diffusion. This book will be of interest to chemists and students and research workers in chemistry.

Dielectrophoresis

Electrolyte solutions play a key role in traditional chemical industry processes as well as other sciences such as hydrometallurgy, geochemistry, and crystal chemistry. Knowledge of electrolyte solutions is also key in oil and gas exploration and production, as well as many other environmental engineering endeavors. Until recently, a gap existed between the electrolyte solution theory dedicated to diluted solutions, and the theory, practice, and technology involving concentrated solutions. *Electrolytes: Supramolecular Interactions and Non-Equilibrium Phenomena in Concentrated Solutions* addresses concentrated electrolyte solutions and the theory of structure formation, super and supramolecular interactions, and other physical processes with these solutions—now feasible due to new precision measurement techniques and experimental data that have become available. The first part of the book covers the electrolyte solution in its stationary state—electrostatic, and various ion-dipole, dipole-dipole, and mutual repulsion interactions. The second part covers the electrolyte solution in its nonstationary status, in the case of forced movement between two plates—electrical conductivity, viscosity, and diffusion. This theoretical framework allows for the determination of activity coefficients of concentrated electrolyte solutions, which play a key role in many aspects of electrochemistry and for developing novel advanced processes in inorganic chemical plants.

Properties of Aqueous Solutions of Electrolytes

The book presents the method of thermodynamic Green Functions applied to the problems of electrochemistry. The basic theorems and their derivations are found at the didactic level which requires, however, a knowledge of the principles of quantum mechanics and statistical physics. The book is mainly based on the results of papers published during the last fifteen years by its authors and their coworkers from the Department of Theoretical Chemistry and the Department of Solid State Physics of the University of Łódź (Poland) within the context of the results reported in literature. Although the Green Functions Method has become very popular in solid state physics, there are almost no applications of this technique to electrochemistry. The only papers where the Green Functions Method is applied to the molten salts and liquid mercury theory are the precursory works published by Professor S. G. Davison and his coworkers from the Waterloo University (Canada) in the early eighties. We hope that the present book can fill this gap in the electrochemical literature.

Ionic Soft Matter: Modern Trends in Theory and Applications

This book forms the proceedings of the 11th International Conference of the Properties of Steam, conducted in 1989 in Czechoslovakia. The session provided an international forum for the dissemination of information on recent progress in experiment, theory and formulation of the properties of steam and aqueous systems in the power industry during the past five years. The papers reflect present knowledge of the thermophysical properties of pure ordinary and heavy water to the properties of aqueous solutions, to the power cycle chemistry, to corrosion in power plants.

Physico-Chemical Analysis of Molten Electrolytes

Physical Chemistry for the Biosciences

Bound with v. 52-55, 1933-34, is the hospital's supplement: Bulletin of the Institute of the History of Medicine, Johns Hopkins University, v. 1-2.

Principles of Thermodynamics

The International Association for the Properties of Water and Steam (IAPWS) has produced this book in order to provide an accessible, up-to-date overview of important aspects of the physical chemistry of aqueous systems at high temperatures and pressures. These systems are central to many areas of scientific study and industrial application, including electric power generation, industrial steam systems, hydrothermal processing of materials, geochemistry, and environmental applications. The authors' goal is to present the material at a level that serves both the graduate student seeking to learn the state of the art, and also the industrial engineer or chemist seeking to develop additional expertise or to find the data needed to solve a specific problem. The wide range of people for whom this topic is important provides a challenge. Advanced work in this area is distributed among physical chemists, chemical engineers, geochemists, and other specialists, who may not be aware of parallel work by those outside their own specialty. The particular aspects of high-temperature aqueous physical chemistry of interest to one industry may be irrelevant to another; yet another industry might need the same basic information but in a very different form. To serve all these constituencies, the book includes several chapters that cover the foundational thermophysical properties (such as gas solubility, phase behavior, thermodynamic properties of solutes, and transport properties) that are of interest across numerous applications. The presentation of these topics is intended to be accessible to readers from a variety of backgrounds. Other chapters address fundamental areas of more specialized interest, such as critical phenomena and molecular-level solution structure. Several chapters are more application-oriented, addressing areas such as power-cycle chemistry and hydrothermal synthesis. As befits the variety of interests addressed, some chapters provide more theoretical guidance while others, such as those on acid/base equilibria and the solubilities of metal oxides and hydroxides, emphasize experimental techniques and data analysis. - Covers both the theory and applications of all Hydrothermal solutions - Provides an accessible, up-to-date overview of important aspects of the physical chemistry of aqueous systems at high temperatures and pressures - The presentation of the book is understandable to readers from a variety of backgrounds

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