excerpt from complex ions in aqueous solutions in compiling this volume the needs and criticism of a large class of students unversed in physical chemistry have been especially kept in view and it is considered that the introduction of some elementary matter such as proofs of formulae which the advanced reader will not require is by no means out of place in giving an account of the methods in chapters iii vi it was found necessary to introduce examples but these were made as brief as possible in order to avoid confusing these chapters with the later ones which deal with practical investigations where more than one method is generally used at a time the tension experiments in chapter viii form a method of investigation in which the examination of different salts shows so little variation that it appeared unnecessary to devote a separate chapter to the method the chief aim of the book is to give some account of the more important experimental work in this subject and no apology is offered for the absence of theories of valency chapter x contains an account of some results besides the identification of complex compounds which have been arrived at by similar methods and which are likely to form the basis of further experiments about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works the best available collection of thermodynamic data the first of its kind in over thirty years this up to date book presents the current knowledge of stability constants and the thermodynamic aspects of complex formation with attention focused over the last thirty years on newer areas such as organometallic chemistry and electroanalytical chemistry this remarkable work begins with a thorough review of basic concepts and methods for determining standard electrode potentials building upon this solid foundation this convenient source proceeds to discuss the various redox couples for every known element the chapters of this practical time saving guide are organized in order of the groups of elements on the periodic table for easy reference to vital material and each chapter also contains the fundamental chemistry of elements numerous equations of chemical reactions easy to read tables of thermodynamic data and useful oxidation stakediagrams standard potentials in aqueous solution is an ideal handy reference for analytical and physical chemists electrochemists electroanalytical chemists chemical engineers biochemists inorganic and organic chemists and spectroscopists needing information on reactions and thermodynamic data in inorganic chemistry and it is a valuable supplementary text for undergraduate and graduate level chemistry students stability constants are fundamental to understanding the behavior of metal ions in aqueous solution such understanding is important in a wide variety of areas such as metal ions in biology biomedical applications metal ions in the environment extraction metallurgy food chemistry and metal ions in many industrial processes in spite of this importance it appears that many inorganic chemists have lost an appreciation for the importance of stability constants and the thermodynamic aspects of complex formation with attention focused over the last thirty years on newer areas such as organometallic chemistry this book is an attempt to show the richness of chemistry that can be revealed by stability constants when measured as part of an overall strategy aimed at understanding the complexing properties of a particular ligand or metal ion thus for example there are numerous crystal structures of the li ion with crown ethers what do these indicate to us about the chemistry of li with crown ethers in fact most of these crystal structures are in a sense misleading in that the li ion forms no complexes or at best very weak complexes with familiar crown ethers such as 12 crown 4 in any known solvent thus without the stability constants our understanding of the chemistry of a metal ion with any particular ligand must be regarded as incomplete in this book we attempt to show how stability constants can reveal factors in ligand design which could not readily be deduced from any other physical technique this inexpensive qualitative analysis supplement offers maximum flexibility and can accompany general chemistry texts works well with any general chemistry text where the instructor wants more qualitative analysis in conjunction with regular class work this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant this volume contains evaluated data on the solubility of
beryllium hydroxide magnesium hydroxide calcium hydroxide strontium hydroxide and barium hydroxide in water and in a number of electrolyte and nonelectrolyte solutions in water the alkaline earth hydroxides can be divided into two groups depending on the hydration of the solid first the sparingly soluble anhydrous beryllium magnesium and calcium hydroxides whose freshly precipitated solids are poorly crystalline and show decreasing solubility with aging and whose solubility in water decreases with increasing temperature second the soluble strontium and barium hydroxide octahydrates that form crystalline precipitates which do not show changes in solubility on aging and whose solubility in water increases with increasing temperature ionic surfactants and aqueous solutions biomolecules metals and nanoparticles covers a wide range of subjects related to aqueous systems from reverse micelles as ion exchangers to the study of micellar phase transfer catalysis for nucleophilic substitution reactions the diverse background expertise and professional interests of the contributors to this book give it a unique richness of approach in topics of relevance for biotechnology and environmental studies over sixty publications presenting research results are combined and expanded in this book by some of the original researchers at a mature age and at the summit of successful professional careers they have taken a second look to the state of the art in the fields that they had pioneered eva rodl and ana soto who had their research formation in the group of professor alberto arce at universidade de santiago de compostela spain are presently professors at that university maen husein is a professor at university of calgary canada remy dumortier mohammad khoshkbarchi hamid rabie and younok dumortier shin are presently active leaders in the industrial world in canada and the usa the editors are retired academics from mcgill university montreal canada and coauthors of the book classical thermodynamics of fluid systems solution thermodynamics and its application to aqueous solutions a differential approach second edition introduces a differential approach to solution thermodynamics applying it to the study of aqueous solutions this valuable approach reveals the molecular processes in solutions in greater depth than that gained by spectroscopic and other methods the book clarifies what a hydrophobe or a hydrophil and in turn an amphiphile does to h2o by applying the same methodology to ions that have been ranked by the hofmeister series the author shows that the kosmotropes are either hydrophobes or hydration centers and that chaotropes are hydrophiles this unique approach and important updates make the new edition a must have reference for those active in solution chemistry the electrical conductivity of aqueous solutions a report is a study of the electrical properties of solutions in water the author presents detailed data on the electrical conductivity of various types of solutions along with an analysis of the factors that affect conductivity this book is an essential resource for scientists working in the fields of chemistry and physics this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant excerpt from ozone reactions in aqueous solutions a bibliography key words aqueous solution bibliography chemical kinetics decomposition mechanism oxidation ozone rate constant reaction about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works first published in 2018 routledge is an imprint of taylor francis an informa company first
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published in 2018 routledge is an imprint of taylor francis an informa company this book is the first to be entirely devoted to the challenging art of handling membrane proteins out of their natural environment a key process in biological and pharmaceutical research but one plagued with difficulties and pitfalls written by one of the foremost experts in the field membrane proteins in aqueous solutions is accessible to any member of a membrane biology laboratory after presenting the structure functions dynamics synthesis natural environment and lipid interactions of membrane proteins the author discusses the principles of extracting them with detergents the mechanisms of detergent induced destabilization countermeasures and recent progress in developing detergents with weaker denaturing properties non conventional alternatives to detergents including bicolles nanodiscs amphipathic peptides fluorinated surfactants and amphipols are described and their relative advantages and drawbacks are compared the synthesis and solution properties of the various types of amphipols are presented as well as the formation and properties of membrane protein amphipol complexes and the transfer of amphipol trapped proteins to detergents nanodiscs lipidic mesophases or living cells the final chapters of the book deal with applications membrane protein in vitro folding and cell free expression solution studies nmr crystallography electron microscopy mass spectrometry amphipol mediated immobilization of membrane proteins and biomedical applications important features of the book include introductory sections describing foundations as well as the state of the art for each of the biophysical techniques discussed and topical tables which organize a widely dispersed literature boxes and annexes throughout the book explain technical aspects and twelve detailed experimental protocols ranging from in vitro folding of membrane proteins to single particle electron cryomicroscopy have been contributed by and commented on by experienced users membrane proteins in aqueous solutions offers a concise accessible introduction to membrane protein biochemistry and biophysics as well as comprehensive coverage of the properties and uses of conventional and non conventional surfactants it will be useful both in basic and applied research laboratories and as a teaching aid for students instructors researchers and professionals within the field the aim of this book is to explain the unusual properties of both pure liquid water and simple aqueous solutions in terms of the properties of single molecules and interactions among small numbers of water molecules it is mostly the result of the author s own research spanning over 40 years in the field of aqueous solutions jacket inorganic chemistry in aqueous solution is aimed at undergraduate chemistry students but will also be welcomed by geologists interested in this field the best available collection of thermodynamic data the first of its kind in over thirty years this up to date book presents the current knowledge on standard potentials in aqueous solution written by leading international experts and initiated by the iupac commissions on electrochemistry and electroanalytical chemistry this remarkable work begins with a thorough review of basic concepts and methods for determining standard electrodepotentials building upon this solid foundation this convenient source proceeds to discuss the various redox couples for every known element the chapters of this practical time saving guide are organized in order of the groups of elements on the periodic table for easy reference to vital material and each chapter also contains the fundamental chemistry of elements numerous equations of chemical reactions easy to read tables of thermodynamic data and useful oxidation state diagrams standard potentials in aqueous solution is an ideal handy reference for analytical and physical chemists electrochemists electroanalytical 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in this volume have both theoretical and practical significance in writing this monograph one of our goals was to prepare a book useful to environmental workers and practicing engineers for this reason our presentation relies heavily on concepts commonly used in the environmental engineering literature in fact the volume was prepared for readers with a basic understanding of environmental engineering principles and some knowledge of adsorption processes no prior familiarity with the ionic
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The Oxidation States of the Elements and Their Potentials in Aqueous Solutions 1938 excerpt from complex ions in aqueous solutions in compiling this volume the needs and criticism of a large class of students unversed in physical chemistry have been especially kept in view and it is considered that the introduction of some elementary matter such as proofs of formulae which the advanced reader will not require is by no means out of place in giving an account of the methods in chapters iii vi it was found necessary to introduce examples but these were made as brief as possible in order to avoid confusing these chapters with the later ones which deal with practical investigations where more than one method is generally used at a time the tension experiments in chapter viii form a method of investigation in which the examination of different salts shows so little variation that it appeared unnecessary to devote a separate chapter to the method the chief aim of the book is to give some 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best available collection of thermodynamic data the first of its kind in over thirty years this up to date book presents the current knowledge on standard potentials in aqueous solution written by leading international experts and initiated by the iupac commissions on electrochemistry and electroanalytical chemistry this remarkable work begins with a thorough review of basic concepts and methods for determining standard electrodepotentials building upon this solid foundation this convenient source proceeds to discuss the various redox couples for every known element the chapters of this practical time saving guide are organized in order of the groups of elements on the periodic table for easy reference to vital material and each chapter also contains the fundamental chemistry of elements numerous equations of chemical reactions easy to read tables of thermodynamic data and useful oxidation state diagrams standard potentials in aqueous solution is an ideal handy reference for analytical and physical chemists electrochemists electroanalytical chemists chemical engineers biochemists inorganic and organic chemists and spectroscopists needing information on reactions and thermodynamic data in inorganic chemistry and it is a valuable supplementary text for undergraduate and graduate level chemistry students Standard Potentials in Aqueous Solution 2017-11-22 stability constants are fundamental to understanding the behavior of metal ions in aqueous solution such understanding is important in a wide variety of areas such as metal ions in biology biomedical applications metal ions in the environment extraction metallurgy food chemistry and metal ions in many industrial processes in spite of this importance it appears that many inorganic chemists have lost an appreciation for the importance of stability constants and the thermodynamic aspects of complex formation with attention focused over the last thirty years on newer areas such as organometallic chemistry this book is an attempt to show the richness of chemistry that can be revealed by stability constants when measured as part of an overall strategy aimed at understanding the complexing properties of a particular ligand or metal ion thus for example there are numerous crystal structures of the li ion with crown ethers what do these indicate to us about the chemistry of li with crown ethers in fact most of these crystal structures are in a sense misleading in that the li ion forms no complexes or at best very weak complexes with familiar crown ethers such as l2 crown 4 in any known solvent thus without the stability constants our understanding of the chemistry of a metal ion with any particular ligand must be regarded as incomplete in this book we attempt to show how stability constants can reveal factors in ligand design which could not readily be deduced from any other physical technique Metal Complexes in Aqueous Solutions 2013-05-31 this inexpensive qualitative analysis supplement offers maximum flexibility and can accompany general chemistry texts works well with any general chemistry text where the instructor wants more qualitative analysis in conjunction with regular class work Qualitative Analysis and the Properties of Ions in Aqueous Solution 1990 this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an
Complex Ions in Aqueous Solutions 2019-02-21 this volume contains evaluated data on the solubility of beryllium hydroxide magnesium hydroxide calcium hydroxide strontium hydroxide and barium hydroxide in water and in a number of electrolyte and nonelectrolyte solutions in water the alkaline earth hydroxides can be divided into two groups depending on the hydration of the solid first the sparingly soluble anhydrous beryllium magnesium and calcium hydroxides whose freshly precipitated solids are poorly crystalline and show decreasing solubility with aging and whose solubility in water decreases with increasing temperature second the soluble strontium and barium hydroxide octahydrates that form crystalline precipitates which do not show changes in solubility on aging and whose solubility in water increases with increasing temperature

Transport phenomena in aqueous solutions 1974 ionic surfactants and aqueous solutions biomolecules metals and nanoparticles covers a wide range of subjects related to aqueous systems from reverse micelles as ion exchangers to the study of micellar phase transfer catalysis for nucleophilic substitution reactions the diverse background expertise and professional interests of the contributors to this book give to it a unique richness of approach in topics of relevance for biotechnology and environmental studies over sixty publications presenting research results are combined and expanded in this book by some of the original researchers at a mature age and at the summit of successful professional careers they have taken a second look to the state of the art in the fields that they had pioneered eva rodl and ana soto who had their research formation in the group of professor alberto arce at universidade de santiago de compostela spain are presently professors at that university maen husein is a professor at university of calgary canada remy dumortier mohammad khoshkbarchi hamid rabe and younok dumortier shin are presently active leaders in the industrial world in canada and the usa the editors are retired academics from mcgill university montreal canada and coauthors of the book classical thermodynamics of fluid systems

Oxidation Reduction Reactions in Aqueous Solutions 1962 solution thermodynamics and its application to aqueous solutions a differential approach second edition introduces a differential approach to solution thermodynamics applying it to the study of aqueous solutions this valuable approach reveals the molecular processes in solutions in greater depth than that gained by spectroscopic and other methods the book clarifies what a hydrophobe or a hydrophil and in turn an amphiphile does to h2o by applying the same methodology to ions that have been ranked by the hofmeister series the author shows that the kosmotropes are either hydrophobes or hydration centers and that chaotropes are hydrophil this unique approach and important updates make the new edition a must have reference for those active in solution chemistry

Alkaline Earth Hydroxides in Water and Aqueous Solutions 2013-10-22 the electrical conductivity of aqueous solutions a report is a study of the electrical properties of solutions in water the author presents detailed data on the electrical conductivity of various types of solutions along with an analysis of the factors that affect conductivity this book is an essential resource for scientists working in the fields of chemistry and physics this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Densities of Aqueous Solutions of Inorganic Substances 1985 excerpt from ozone reactions in aqueous solutions a bibliography key words aqueous solution bibliography chemical kinetics decomposition mechanism oxidation ozone rate constant reaction about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Ionic Surfactants and Aqueous Solutions 2018-07-09 excerpt from the action of water and aqueous solutions upon soil carbonates the solubility in water of carbon dioxide like all other gases is greater at the lower temperatures than at the higher temperatures with one or possibly two known exceptions the solubility in aqueous solutions is decreased by increasing quantities of the material in solution thus the solubility of carbon dioxide in water is decreased either by increasing the temperature or by the addition of some material such as sodium chloride or other salts the results of the work recorded in the literature have been assembled and are given in the following tables the results are given in the same form as they have been recorded in the original papers for instance the solubility of carbon dioxide in water at 10 c has been given by bunsen as this means that one cubic centimeter of water at 10 will dissolve the quantity of carbon dioxide occupying cubic centimeters at 0 and 760mm all the gaseous volumes are reduced to 0 and 760 mm
Solution Thermodynamics and Its Application to Aqueous Solutions 2017-03-28 first published in 2018 Routledge is an imprint of Taylor Francis an Informa company

Removal of Phosphate in Aqueous Solutions by Modified... 2019 ionic surfactants and aqueous solutions

Electronic-structure Interactions in Aqueous Solutions: a Liquid-jet Photoelectron-spectroscopy Study 2011 The best available collection of thermodynamic data the first of its kind in over thirty years this up to date book presents the current knowledge on standard potentials in aqueous solution written by leading international experts and initiated by the iupac commissions on electrochemistry and electroanalytical chemistry this remarkable work begins with a thorough review of basic concepts and methods for determining standard electrode potentials building upon this solid foundation this convenient source proceeds to discuss the various redox couples for every known element the chapters of this practical time saving guide are organized in order of the groups of elements on the periodic table for easy reference to vital material and each chapter also contains the fundamental chemistry of elements numerous equations of chemical reactions easy to read tables of thermodynamic data and useful oxidation state diagrams standard potentials in aqueous solution is an ideal handy reference for analytical and physical chemists electrochemists electroanalytical chemists chemical engineers biochemists inorganic and organic chemists and spectroscopists needing information on reactions and thermodynamic data in inorganic chemistry and it is a valuable supplementary text for undergraduate and graduate level chemistry students

Development of an Improved Method for Measuring the Conductance of Aqueous Solutions of Electrolytes 1949 Ionic surfactants and aqueous solutions biomolecules metals and nanoparticles covers a wide range of subjects related to aqueous systems from reverse micelles as ion exchangers to the study of micellar phase transfer catalysis for nucleophilic substitution reactions the diverse background expertise and professional interests of the contributors to
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Investigations of Complex Formation in Aqueous Solutions 1953 this monograph is intended to provide a systematic presentation of theories concerning the adsorption of metal ions from aqueous solutions onto surfaces of natural and synthetic substances and to outline methods and procedures to estimate the extent and progress of adsorption as heavy metals and the problems associated with their transport and distribution are of serious concern to human health and the environment the materials presented in this volume have both theoretical and practical significance in writing this monograph one of our goals was to prepare a book useful to environmental workers and practicing engineers for this reason our presentation relies heavily on concepts commonly used in the environmental engineering literature in fact the volume was prepared for readers with a basic understanding of environmental engineering principles and some knowledge of adsorption processes no prior familiarity with the ionic solute adsorption at solid solution interfaces is assumed instead introduction of the necessary background information was included generally speaking metal ion adsorption may be studied in terms of three distinct but interrelated phenomena surface ionization complex formation and the formation and presence of an electrostatic double layer adjacent to adsorbent surfaces analyses of these phenomena with various degrees of sophistication are adsorption of metal ions from aqueous solutions presented and their various combinations yield different models that describe metal ion adsorption

Investigation of Ion Mobility in Aqueous Solutions 1971
The Apparent Volumes of Some Salts in Aqueous and Non-aqueous Solutions and Their Bearing on the Theory of Solutions 1938
X-Ray Diffraction of Ions in Aqueous Solutions: Hydration and Complex Formation 2018-02-06
X-Ray Diffraction of Ions in Aqueous Solutions: Hydration and Complex Formation 2018-02-06
Membrane Proteins in Aqueous Solutions 2018-06-08
Sulfur Dioxide Oxidation Reactions in Aqueous Solutions 1981
A Method for the Investigation of Equilibria Existing in Aqueous Solutions of Certain Salts 1926
Dissociation Constants of Inorganic Acids and Bases in Aqueous Solution 1969
Molecular Theory of Water and Aqueous Solutions: The role of water in protein folding, self-assembly and molecular recognition 2009
Atlas of Electrochemical Equilibria in Aqueous Solutions 2019
Light Scattering and Ultrasonic Investigations of Relaxation in Aqueous Solutions 1969
Inorganic Chemistry in Aqueous Solution 2003
Studies on the Thermodynamics of Association of Ions in Aqueous Solutions 1962
Adsorption of Ions on Metal Oxide Surfaces in Aqueous Solutions 1966
Relaxation Processes in Aqueous Solutions Upon X-ray Exposure 2015
Standard Potentials in Aqueous Solution 2017-11-22
Environmental Behavior of Hydrophobic Pollutants in Aqueous Solutions 1975
Ionic Surfactants and Aqueous Solutions 2018-07-09
Kinetics of Some Oxidation-reduction Reactions in Aqueous Solutions 1963
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