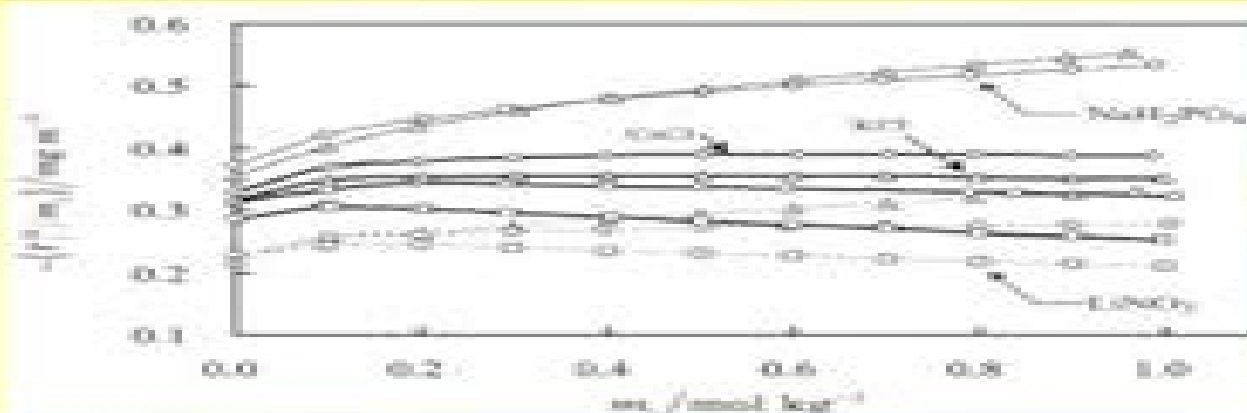


SURFACE TENSION AND RELATED THERMODYNAMIC QUANTITIES OF AQUEOUS ELECTROLYTE SOLUTIONS



Norihiro Matubayasi



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Matubayasi, 2013-09-09 Surface tension provides a thermodynamic avenue for analyzing systems in equilibrium and formulating phenomenological explanations for the behavior of constituent molecules in the surface region While there are extensive experimental observations and established ideas regarding desorption of ions from the surfaces of aqueous salt solutions a more successful discussion of the theory has recently emerged which allows the quantitative calculation of the distribution of ions in the surface region *Surface Tension and Related Thermodynamic Quantities of Aqueous Electrolyte Solutions* provides a detailed and systematic analysis of the properties of ions at the air water interface Unifying older and newer theories and measurements this book emphasizes the contributions of simple ions to surface tension behavior and the practical consequences It begins with a general discussion on Gibbs surface thermodynamics offering a guide to his theoretical insight and formulation of the boundary between fluids The text then discusses the thermodynamic formulae that are useful for practical experimental work in the analysis of fluid fluid interfaces Chapters cover surface tension of pure water at air water and air oil interfaces surface tension of solutions and the thermodynamic quantities associated with the adsorption and desorption of solutes and surface tension of simple salt solutions They also address adsorption of ions at the air water interface surface tension of solutions and the effect of temperature adsorption from mixed electrolyte solutions and thermodynamic properties of zwitterionic amino acids in the surface region Focusing on the thermodynamic properties of ions at air fluid interfaces this book gives scientists a quantitative rigorous and objectively experimental methodology they can employ in their research

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Wetting and Spreading Dynamics explains how surface forces acting at the three phase contact line determine equilibrium hysteresis contact angles and other equilibrium and kinetics features of liquids when in contact with solids or with other immiscible liquids It examines the interaction of surface forces capillary forces and properties of the transition zone between the bulk liquid and solid substrate Significantly revised and updated the Second Edition features new chapters that cover spreading of non Newtonian liquids over porous substrates hysteresis of contact angles on smooth homogeneous substrates equilibrium and hysteresis contact angles on deformable substrates and kinetics of simultaneous spreading and evaporation Drawing together theory and experimental data while presenting over 150 figures to illustrate the concepts *Wetting and Spreading Dynamics Second Edition* is a valuable resource written for both newcomers and experienced researchers

Interfacial Chemistry of Rocks and Soils Noémi M. Nagy,József Kónya,2021-10-27 Knowledge of the basic interactions that take place between geological materials and different substances is the first step in understanding the effects of adsorption and other interfacial processes on the quality of rocks and soils and on driving these processes towards a beneficial or neutral result Interfacial Chemistry of Rocks and Soils examines the different processes at solid and liquid interfaces of soil and rock presenting a complete analysis that emphasizes the importance of chemical species on these interactions This Second Edition features novel results in the field and expanded coverage of the kinetics of interfacial processes New content includes models of heterogeneous isotope exchange sorption isotherms for heterovalent cation exchange as well as sorption of anions by chemically modified clays Summarizing the results and knowledge of the authors research in this field over several decades this volume Explores the individual components of the studied systems the solid the solution and the interface Discusses the characteristics and thermodynamics of the interface Profiles the most important analytical methods in the study of interfacial processes Demonstrates transformations initiated by interfacial processes Outlines avenues of treatment that may solve geological soil science and environmental problems Drawn chiefly from the authors years of research at the Imre Lajos Isotope Laboratory in the Department of Physical Chemistry at the University of Debrecen in Hungary this book discusses chemical reactions on the surfaces interfaces of soils and rocks examines the role of these processes in environmental colloid and geochemistry and explores the effects on agricultural environmental and industrial applications *Physics Briefs* ,1984 Springer Handbook of Experimental Fluid Mechanics Cameron Tropea,Alexander L. Yarin,John F. Foss,2007-10-09 Accompanying DVD ROM contains all chapters of the Springer Handbook Page 3 of cover *Dissertation Abstracts International* ,2006 Handbook of Aqueous Electrolyte Thermodynamics Joseph F. Zemaitis, Jr.,Diane M. Clark,Marshall Rafal,Noel C. Scrivner,1986-06-15 Expertise in electrolyte systems has become increasingly important in traditional CPI operations as well as in oil gas exploration and production This book is the source for predicting electrolyte systems behavior an indispensable do it yourself guide with a blueprint for formulating predictive mathematical electrolyte models recommended tabular values to use in these models and annotated bibliographies The final chapter is a general recipe for formulating complete predictive models for electrolytes along with a series of worked illustrative examples It can serve as a useful research and application tool for the practicing process engineer and as a textbook for the chemical engineering student **Handbook of Aqueous Electrolyte Thermodynamics** Joseph F. Zemaitis, Jr.,Diane M. Clark,Marshall Rafal,Noel C. Scrivner,2010-09-16 Expertise in electrolyte systems has become increasingly important in traditional CPI operations as well as in oil gas exploration and production This book is the source for predicting electrolyte systems behavior an indispensable do it yourself guide with a blueprint for formulating predictive mathematical electrolyte models recommended tabular values to use in these models and annotated bibliographies The final chapter is a general recipe for formulating complete predictive models for electrolytes along with a series of worked

illustrative examples It can serve as a useful research and application tool for the practicing process engineer and as a textbook for the chemical engineering student

Prediction of Thermodynamic Properties of Aqueous Electrolyte Solutions Hee-taik Kim,1988 *Molecular Thermodynamics of Electrolyte Solutions* Lloyd L. Lee,2008 The introductory textbook provides an update on electrolyte thermodynamics with a molecular perspective It is eminently suited as an introduction to the solution thermodynamics of ionic mixtures at the undergraduate and graduate level It is also invaluable for the understanding and design in the engineering of natural gas treating and adsorption refrigeration with electrolytes

Electrolytes, Properties of Solutions Georgii Georgievich Aseev,1999 This book is a continuation of a number of the author's works dealing with the study representation and methods of calculation of the physicochemical properties of binary and multicomponent electrolyte solutions It gives data for a great number of electrolytes that are used in modern chemical technology and is intended for scientific workers and engineers in the chemical and allied industries Methods for calculating the thermal conductivity and surface tension of multicomponent electrolyte solutions with minimum errors are presented Related equations for calculating the thermal conductivity of water at the saturation line in the temperature range of zero to 350 degrees C the activity of water and the water vapor pressure over pure water in the same temperature range and over a solution at the saturation line are also considered

Aqueous Solutions of Simple Electrolytes Felix Franks,2012-12-06 The chapters making up this volume had originally been planned to form part of a single volume covering solid hydrates and aqueous solutions of simple molecules and ions However during the preparation of the manuscripts it became apparent that such a volume would turn out to be very unwieldy and I reluctantly decided to recommend the publication of separate volumes The most sensible way of dividing the subject matter seemed to lie in the separation of simple ionic solutions The emphasis in the present volume is placed on ion solvent effects since a number of excellent texts cover the more general aspects of electrolyte solutions based on the classical theories of Debye Huckel Onsager and Fuoss It is interesting to speculate as to when a theory becomes classical Perhaps this occurs when it has become well known well liked and much adapted The above mentioned theories of ionic equilibria and transport certainly fulfill these criteria There comes a time when the refinements and modifications can no longer be related to physical significance and can no longer hide the fact that certain fundamental assumptions made in the development of the theory are untenable especially in the light of information obtained from the application of sophisticated molecular and thermodynamic techniques

Disjoining Pressures of Nonionic Surfactant Stabilized Thin-liquid Films and Surface Tensions of Electrolyte Solutions Keith Andrew Karraker,1999 *Surfactant Science and Technology* Drew Myers,1988 *Solution Chemistry of Surfactants* K. L. Mittal,1979 **Theory for Surface Structure of Electrolyte Solutions** Albert Loyd Nichols,1983 **Dynamic Surface Tension of Aqueous Surfactant Solutions** Xi Yuan Hua,1990 **The Thermodynamic Functions of Concentrated Aqueous Electrolyte Solutions** E. Glueckauf,1959 **Thermodynamics of Aqueous Electrolyte Solutions** Ali

Haghtalab, 1990 The focus of this work is the thermodynamics of aqueous solutions of strong electrolytes for both binary and multicomponent systems

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