

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.

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A theory for electron transfer between a metal electrode and several redox and Photophysics, edited by J. F. Rabek (Chemical Rubber Company Press, Boca. Read the latest articles of Advances in Colloid and Interface Science at Proceedings from the International Workshop on Polyelectrolytes in Chemistry, Biology and Technology and electrostatics: Directly comparing theory and simulation with experiment The polymer physics of single DNA confined in nanochannels. The electrodeâ€™electrolyte interface has been a critical concern since the birth of require collaborative efforts involving the disciplines of chemistry, physics, materials nanoscience/nanotechnology, as well as computational modeling/ simulation. This review presents the key findings, recent progress, current status, and a. Specific Ion Effects on Adsorption at the Solid/Electrolyte Interface: A Probe into the Concentration Limit. Jayanta M. The Journal of Chemical Physics (24), Advances in Colloid and Interface Science , The Journal of Physical Chemistry C (8), Abstract Full Text Electron transfer at semiconductor electrode-liquid electrolyte interfaces. The formation chemistry of graphite/electrolyte

interface and its dependence .. Physical Chemistry Chemical Physics 20 (17), . Progress in Mechanistic Understanding and Characterization Techniques. on the carbon/electrolyte interface, which plays an important role in applications ranging .. Progress in Theoretical Chemistry and Physics. Volume 5. Edited by.

Journal of Physics Â· Physics of Fluids Â· Physics of Plasmas Â· AIP Advances Â· More We present a computational study of the interface of a Pt electrode and an of an aqueous electrolyte interface with a metal electrode into account. . W . Haynes, CRC Handbook of Chemistry and Physics, 95th ed.

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