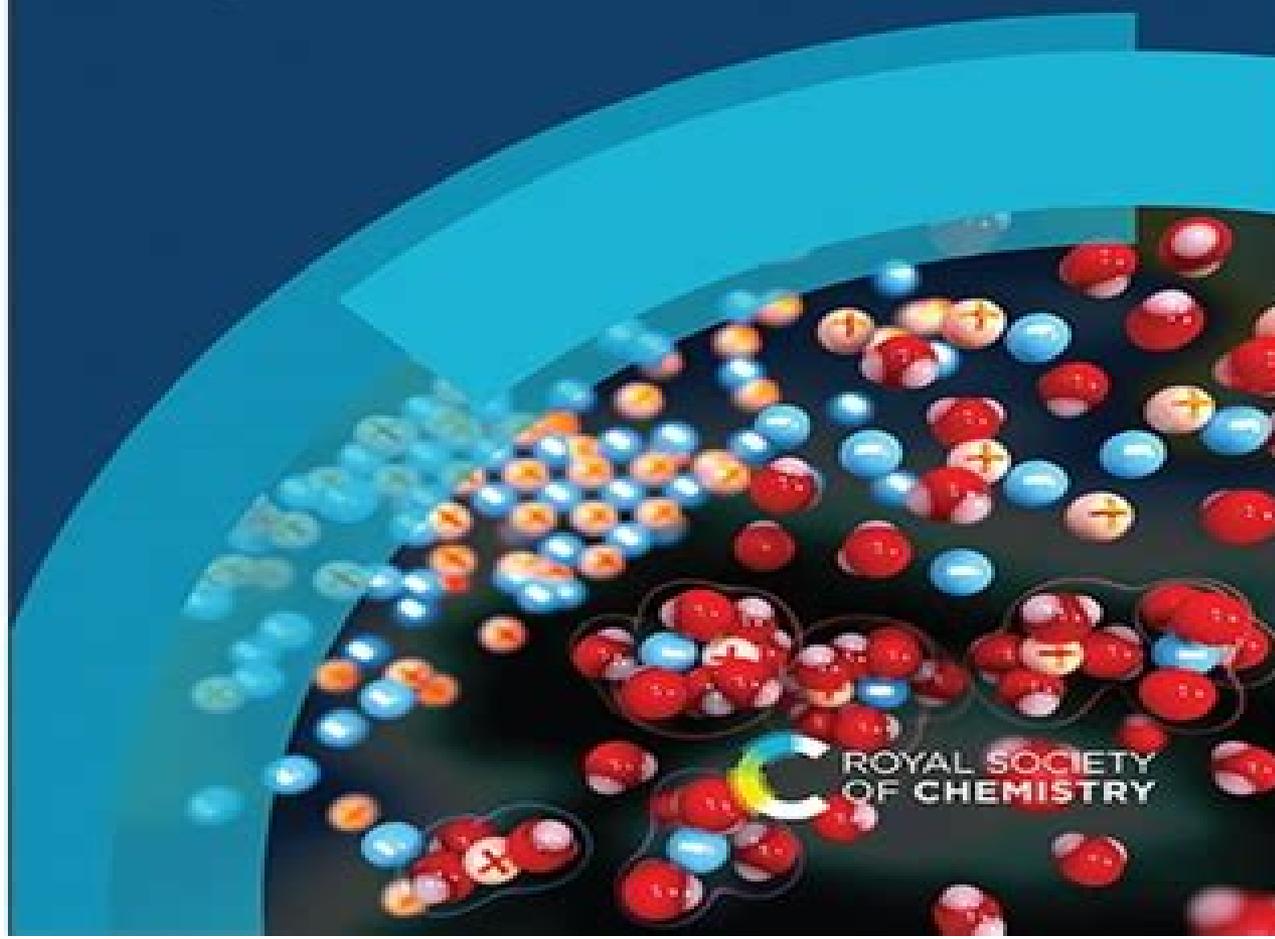


Electrolytes, Interfaces and Interphases

Fundamentals and Applications in Batteries

Kang Xu



Electrolytes At Interfaces

Julia Schneider



Electrolytes At Interfaces:

Electrolytes at Interfaces S. Durand-Vidal, J.-P. Simonin, P. Turq, 2001-11-30 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.

Electrolytes, Interfaces and Interphases Kang Xu, 2023-04-12 Electrolytes are indispensable components in electrochemistry and the fast-growing electrochemical energy storage markets. Research in electrolytes has witnessed exponential growth in recent years, accompanied by their applications in the most popular electrochemical cell ever invented, lithium-ion batteries (LIBs). In LIBs, electrolytes and their interphases determine how high the voltage of a battery is, how many times it can be charged/discharged, or how rapid the energy stored therein could be released. The conquest of further technical challenges around safety, life and cost effectiveness of lithium-based or beyond lithium batteries requires in-depth understanding of electrolytes and interphases. This will be the authoritative textbook for those entering the field. Chapters will establish the fundamental principles for the field before moving onto important knowledge acquired in recent years. There will be special emphasis on linking these fundamentals to real-world problems encountered in devices, especially lithium-ion batteries. The book will be suitable for advanced undergraduate and postgraduate students in electrochemical energy storage, electrochemistry, materials science and engineering, as well as researchers new to the subject.

Electronic and Molecular Structure of Electrode-Electrolyte Interfaces Wilford N. Hansen, 1983

Photoeffects at Semiconductor-Electrolyte Interfaces Arthur J. Nozik, 1981

Graphene-Electrolyte Interfaces Hualin Zhan, 2020-04-07 Graphene-electrolyte systems are commonly found in cutting-edge research on electrochemistry, biotechnology, nanoelectronics, energy storage, materials engineering and chemical engineering. The electrons in graphene intimately interact with ions from an electrolyte at the graphene-electrolyte interface, where the electrical or chemical properties of both graphene and electrolyte could be affected. The electronic behavior therefore determines the performance of applications in both Faradaic and non-Faradaic processes, which require intensive studies. This book systematically integrates the electronic theory and experimental techniques for both graphene and electrolytes. The theoretical sections detail the

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The Characterization and Optimization of Metal Electrode Interfaces With solid Electrolytes Fletcher Robert Woodrow, 2003 *Adsorption at the Air-solution Interface ...* Robert Dubois, 1929 **On the Significance of Conditions at the Interface in Relation to the Zeta Potential** Henry Bolivar Bull, 1930 *Journal of the Chemical Society*, 1924

Optical Studies of Adsorbed Layers at Interfaces Symposium on Optical Studies of Adsorbed Layers at Interfaces (1970 : London), 1971 **The Determination of the Zeta-potential on Cellulose** David Reuben Briggs, Minnesota. Agricultural experiment station, 1927 *Journal of Physical & Colloid Chemistry*, 1928 Includes section New Books **The Journal of Physical Chemistry**, 1928 *Proceedings of the Royal Society of London* Royal Society (Great Britain), 1912 Publishes research papers in the mathematical and physical sciences Continued by Proceedings Mathematical and physical sciences and Proceedings Mathematical physical and engineering sciences *Notes from the Botanical School of Trinity College, Dublin* Trinity College (Dublin, Ireland), 1925 **The Scientific Proceedings of the Royal Dublin Society** Royal Dublin Society, 1930 **Transactions of the Faraday Society** Faraday Society, 1911 *Transactions* Faraday Society, 1925 **Potential Differences at the Air-liquid Interface** Valdimar Alfred Vigfusson, 1930 **Optics at the solid-liquid interfaces**, 1977

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