Record Nr. UNINA9910787570103321 Autore Matubayasi Norihiro Titolo Surface tension and related thermodynamic quantities of aqueous electrolyte solutions / / Norihiro Matubayasi, Nagasaki University, Nagasaki, Japan Boca Raton:,: Taylor & Francis,, 2014 Pubbl/distr/stampa **ISBN** 0-429-18497-2 1-4398-8087-5 Descrizione fisica 1 online resource (220 p.) Collana Surfactant science;; 157 Disciplina 530.4/275 530.4275 Soggetti Surface tension Surface chemistry Thermodynamics Electrolyte solutions Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Front Cover; Contents; Preface; Chapter 1: Introduction to Nota di contenuto Thermodynamic Consideration of Fluid/Fluid Interface; Chapter 2: Basic Thermodynamic Relations for the Analysis of Fluid/Fluid Interface: Chapter 3: Surface Tension of Pure Water at Air/Water and Oil/Water Interfaces; Chapter 4: Surface Tension of Solutions; Chapter 5: Surface Tension of Simple Salt Solutions; Chapter 6: Adsorption of Ions at Air/Water Interface; Chapter 7: Surface Tension of Solutions and Temperature; Chapter 8: Adsorption from Mixed Electrolyte Solutions; Chapter 9: Aqueous Solutions of Zwitterionic Amino Acids AppendixBack Cover Sommario/riassunto 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 d