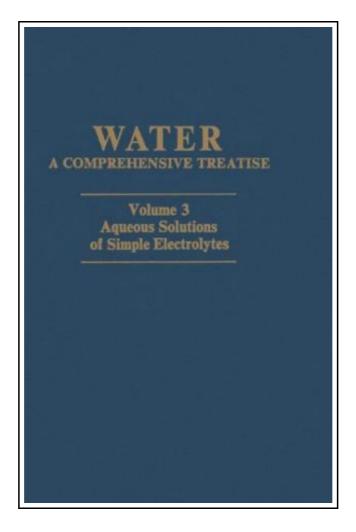
Aqueous Solutions of Simple Electrolytes



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Reviews

It is really an remarkable book which i have ever go through. It can be writter in simple terms and not difficult to understand. I am just effortlessly can get a enjoyment of reading a composed pdf. (Dr. Lily Wunsch II)

AQUEOUS SOLUTIONS OF SIMPLE ELECTROLYTES



Book Condition: New. Publisher/Verlag: Springer, Berlin | 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 manu scripts it became apparent that such a volume would turn out to be very unwieldy and I reluctantly decided to recommend the publication of sepa rate 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, On sager, 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. | 1 Thermodynamics of Ion Hydration.- 1. The Thermodynamic Theory of Solvation.- 1.1. General Remarks.- 1.2. Resolution of Data into Solvation and Excess Properties.- 1.3. Standard States.- 1.4. Reference Solvents.- 1.5. Pair Interaction Coefficients.- 1.6. Temperature and Pressure.- 1.7. Single-Ion Properties.- 2. Molecular Interpretation.- 2.1. Introduction.- 2.2. The Born Model.- 2.3. The Debye-Pauling Model.- 2.4. Hamiltonian Models.- 2.5. A Chemical Model.- 3. Hydration of Gaseous Ions.- 3.1. Free Energies, Enthalpies, and Entropies of Hydration.- 3.2. Equations for Entropies of Aqueous Ions.- 3.3. The Chemical...

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