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Autor:

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Sinopsis

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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.

Contents:
Solution Thermodynamics of Electrolyte Solutions
Basic Electrostatics
The Debye-Hückel Theory
Pitzer's Formulation for Electrolytes
The Statistical Mechanics of Electrolytes
Ions as Charged Hard Spheres: The Mean Spherical Approach
The McMillan-Mayer and Lewis-Randall Scales
Multi-Solvent Electrolyte Solutions: Setchenov's Salting-Out Principle
Ionic Distributions: An Integral Equation Approach
The Electric Double Layers
Application: Adsorption Refrigeration with Electrolytes
Application: Amine Solutions in Acid Gas Treating