



# Molecular Thermodynamics of Electrolyte Solutions

*Lloyd L Lee*

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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

**Readership:** Undergraduate and graduate students, as well as practising engineers, in chemical engineering, refrigeration, corrosion, natural gas engineering, physical chemistry, electrochemistry, biochemistry, colloidal chemistry, mineralogy, industrial chemistry and environmental engineering.

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