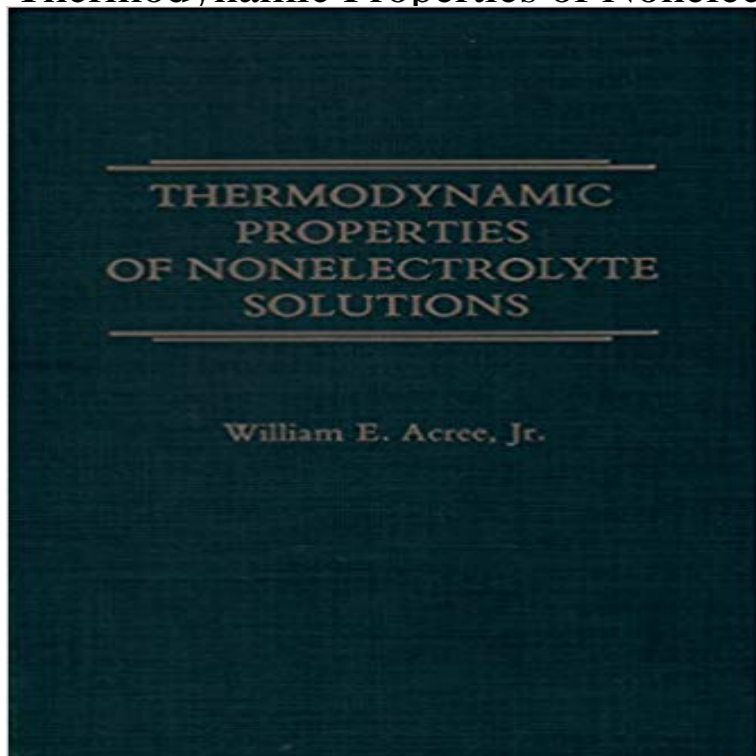


Thermodynamic Properties of Nonelectrolyte Solutions



Thermodynamic Properties of Nonelectrolyte Solutions reviews several of the more classical theories on the thermodynamics of nonelectrolyte solutions. Basic thermodynamic principles are discussed, along with predictive methods and molecular thermodynamics. This book is comprised of 12 chapters; the first of which introduces the reader to mathematical relationships, such as concentration variables, homogeneous functions, Eulers theorem, exact differentials, and method of least squares. The discussion then turns to partial molar quantities, ideal and nonideal solutions, and empirical expressions for predicting the thermodynamic properties of multicomponent mixtures from binary data. The chapters that follow explore binary and ternary mixtures containing only nonspecific interactions; the thermodynamic excess properties of liquid mixtures and ternary alcohol-hydrocarbon systems; and solubility behavior of nonelectrolytes. This book concludes with a chapter describing the use of gas-liquid chromatography in determining the activity coefficients of liquid mixtures and mixed virial coefficients of gaseous mixtures. This text is intended primarily for professional chemists and researchers, and is invaluable to students in chemistry or chemical engineering who have background in physical chemistry and classical thermodynamics.

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