



Molecular Thermodynamics of Nonideal Fluids (Butterworths Series in Chemical Engineering)

Lloyd L. Lee

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This work is an introduction to the study of molecular theories using methods in statistical mechanics. The molecular theory of matter is presented here based on a structural point of view, ie the molecular distribution functions. The distribution functions play a central role in the study of liquids due to their accessibility from x-ray and neutron scattering experiments and computer simulations. Integral equations, perturbation theories and molecular dynamics simulation techniques are presented. It provides methods for calculating the thermodynamics properties, such as internal energy, pressure and chemical potential, of simple as well as molecular fluids. Dr. Lee is active in the field of molecular thermodynamics and its applications to phase equilibria, equations of state and thermophysical properties. He has done research in integral solutions, perturbation theories and computer simulations. His recent interest include supercritical fluid extraction, electrolyte solution properties and interfacial adsorption. He obtained his PhD from Northwestern University, engaged in research at the Laboratoire de Physique et Hautes Energies of the University of Paris and worked for Du Pont Chemical Company.

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