



Liquids and Liquid Mixtures (Monographs in Chemistry)

J. S. Rowlinson

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Liquids and Liquid Mixtures, Third Edition explores the equilibrium properties of liquids and liquid mixtures and relates them to the properties of the constituent molecules using the methods of statistical thermodynamics. Topics covered include the critical state, fluid mixtures at high pressures, and the statistical thermodynamics of fluids and mixtures. This book consists of eight chapters and begins with an overview of the liquid state and the thermodynamic properties of liquids and liquid mixtures, including vapor pressure and heat capacities. The discussion then turns to the thermodynamics of and inequalities at the critical point; measurement of thermodynamic functions in the critical region; experimental values of the critical exponents; and scaling of the free energy. The change of thermodynamic functions with composition is the subject of the next two chapters, followed by an analysis of fluid mixtures at high pressures. The final chapter is devoted to the statistical thermodynamics of fluids and mixtures, paying particular attention to the thermodynamic properties in terms of the forces between the molecules; the balance of intermolecular potentials between like and unlike molecules; and phase behavior. This monograph will be of interest to students and researchers in the fields of chemistry and chemical engineering.

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