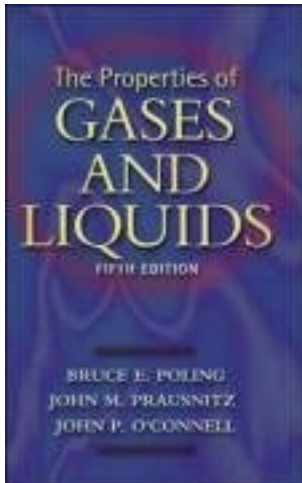


The Properties of Gases and Liquids



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Updating their hefty reference approximately every decade since 1958, chemical engineers Poling (U. of Toledo), John M. Prausnitz (U. of California-Berkeley), and John P. O'Connell (U. of Virginia) describe and critically review various estimation procedures for a limited number of properties of gases and liquids. Among those properties are critical and other pure component properties; pressure-volume-temperature relationships and thermodynamic properties of pure components and mixtures; vapor pressures and phase-change enthalpies; standard enthalpies of formation; standard Gibbs energy of formation; heat capacity; surface tension; viscosity; thermal conductivity; diffusion coefficients; and phase equilibria. They compare most of the estimated properties to experimental findings to indicate reliability, and illustrate most methods with examples.

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