

Introductory chemical engineering thermodynamics, 1999, 660 pages, J. Richard Elliott, Carl T. Lira, 0130113867, 9780130113863, Prentice Hall PTR, 1999

1138F-0 Includes extensive coverage of process simulation models A practical, up-to-date introduction to applied thermodynamics Introductory Chemical Engineering Thermodynamics will help students master the fundamentals of applied thermodynamics as practiced today: with a molecular perspective and extensive use of process simulation. The book begins by introducing energy and entropy balances that are at the heart of processing engineering calculations. Understand the ideal gas law and thermodynamic tables. Learn important equation of state techniques for calculating thermodynamic properties including virial and cubic equations of state and the underlying theories behind them. Coverage includes: Closed systems, open systems, and steady-state systems Process thermodynamics, including the Carnot and Rankine cycles; Rankine modifications, refrigeration, liquefaction, internal combustion and fluid-flow Departure functions and the role of enthalpy and entropy properties Generalizing classical thermodynamics to any fluid Fluid phase equilibria in mixtures, including multicomponent systems, fugacities, activity models, and liquid-liquid phase equilibria Comparisons of thermodynamic models that help readers choose the most meaningful approach to each problem Introductory Chemical Engineering Thermodynamics presents extensive practical examples, especially in its coverage of non-ideal mixtures, which addresses water contamination via hydrocarbons, polymer blending/recycling, oxygenated fuels and other contemporary issues. Throughout, the book makes use of models and equations that may be worked with low-cost calculators and spreadsheet software. Useful appendices include a glossary; problem-solving strategies and software; relevant basic mathematics; and pure component properties.

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