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as well as “how.” He offers extensive imagery to help students conceptualize the equations, illuminating thermodynamics with more than 100 figures, as well as 190 examples from within and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures, emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering, including separations, reactions, and capstone design. More than 300 end-of-chapter problems range from basic calculations to realistic environmental applications; these can be solved with any leading mathematical software. Coverage includes

- Pure fluids, PVT behavior, and basic calculations of enthalpy and entropy
- Fundamental relationships and the calculation of properties from equations of state
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- Partial miscibility, solubility of gases and solids, osmotic processes
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Presents a comprehensive and rigorous treatment of the subject from the classical perspective to offer a problem-solving methodology that encourages systematic thinking. Noted for its treatment of the second law, this text clearly presents both theory and application. The presentation of chemical availability has been extended by a cutting-edge discussion of standard chemical availability. Design applications and problems have been updated to include economic considerations. Environmental topics have also been expanded and updated. The new version of Interactive Thermodynamics (IT) is a powerful windows-based software program that now includes equation-solver, printing, graphing, data retrieval and simulation capabilities.

Provides an essential treatment of the subject and rigorous methods to solve all kinds of energy engineering problems.

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