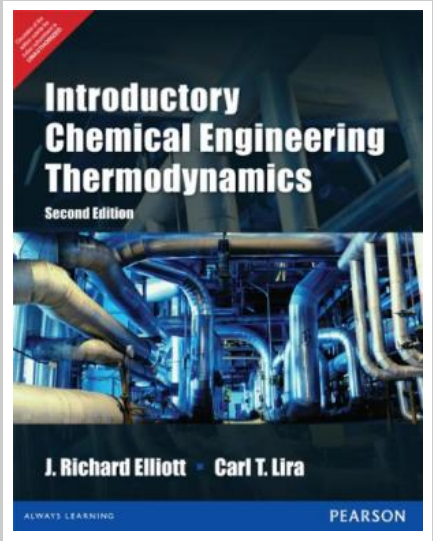




# Introductory Chemical Engineering Thermodynamics (Second Edition)

By J. Richard Elliot

Pearson Education, 2014. Softcover. Book Condition: New. 2nd edition. 20 x 25 cm. In this book, two leading experts and long-time instructors thoroughly explain therodynamics, taking the molecular perspective that working engineers require (and competitive books often avoid). This new Second Edition contains extensive new coverage of today`s fast-growing biochemical engineering applications, notably biomass conversion to fuels and chemicals. It also presents many new MATLAB examples and tools to complement its previous usage of Excel and other software. Contents Unit I: First and Second Laws Chapter 1: Basic Concepts Chapter 2: The Energy Balance Chapter 3: Energy Balances for Composite Systems Chapter 4: Entropy Chapter 5: Thermodynamics of Processes Unit II: Generalized Analysis of Fluid Properties Chapter 6: Classical Thermodynamics Generalizations for Any Fluid Chapter 7: Engineering Equations of State for PVT Properties Chapter 8: Departure Functions Chapter 9: Phase Equilibrium in a Pure Fluid Unit III: Fluid Phase Equilibria in Mixtures Chapter 10: Introduction to Multicomponent Systems Chapter 11: An Introduction to Activity Models Chapter 12: Van der Waals Activity Models Chapter 13: Local Composition Activity Models Chapter 14: Liquid-Liquid and Solid-Liquid Phase Equilibria Chapter 15: Phase Equilibria in Mixtures by an Equation of State Chapter 16: Advanced Phase...



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