

Table of Contents

- Notation
- Chapter 1 Introduction
- Chapter 2 Conservation of Mass
- Chapter 3 Conservation of Energy
- Chapter 4 Entropy: An Additional Balance Equation
- Chapter 5 Liquefaction, Power Cycles, and Explosions
- Chapter 6 The Thermodynamic Properties of Real Substances
- Chapter 7 Equilibrium and Stability in One-Component Systems
- Chapter 8 The Thermodynamics of Multicomponent Mixtures
- Chapter 9 The Estimation of the Gibbs Free Energy and Fugacity of a Component in a Mixture
- Chapter 10 Vapor-liquid Equilibrium in Mixtures
- Chapter 11 Other types of Phase Equilibria in Fluid Mixtures
- Chapter 12 Mixture Phase Equilibria Involving Solids
- Chapter 13 Chemical Equilibrium
- Chapter 14 The Balance Equations for Chemical Reactors and Electrochemistry
- Chapter 15 Some Biochemical Applications of Thermodynamics
- Appendix A Thermodynamic Data
- Appendix B Computer Programs