



Advanced Engineering Thermodynamics

By Bejan, Adrian

Wiley, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PREFACE. PREFACE TO THE SECOND EDITION. PREFACE TO THE FIRST EDITION. SYMBOLS. 1 THE FIRST LAW OF THERMODYNAMICS. 1.1 Elements of Thermodynamics Terminology. 1.2 The First Law for Closed Systems. 1.3 Work Transfer. 1.4 Heat Transfer. 1.5 Energy Change. 1.6 The First Law for Open Systems. 1.7 Historical Background. 1.8 The Structured Presentation of the First Law. References. Problems. 2 THE SECOND LAW OF THERMODYNAMICS. 2.1 The Second Law for Closed Systems. 2.2 The Second Law for Open Systems. 2.3 The Local Thermodynamic Equilibrium Model. 2.4 The Entropy Maximum and Energy Minimum Principles. 2.5 Carathe'odory's Two Axioms, 2.6 A Heat Transfer Man's Two Axioms, 2.7 Historical Background. References. Problems. 3 ENTROPY GENERATION, OR EXERGY DESTRUCTION. 3.1 Lost Available Work. 3.2 Cycles. 3.3 Nonflow Processes. 3.4 Steady-Flow Processes. 3.5 Mechanisms of Entropy Generation or Exergy Destruction. 3.6 Entropy-Generation Minimization. References. Problems. 4 SINGLE-PHASE SYSTEMS. 4.1 Simple System. 4.2 Equilibrium Conditions. 4.3 The Fundamental Relation. 4.4 Legendre Transforms. 4.5 Relations between Thermodynamic Properties. 4.6 Partial Molal Properties. 4.7 Ideal Gas Mixtures. 4.8 Real Gas Mixtures. References. Problems. 5 EXERGY ANALYSIS. 5.1 Nonflow Systems. 5.2 Flow Systems....



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