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Elementary Principles of Chemical Processes

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Wiley, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface to the Third Edition. Notes to Instructors. Interactive Chemical Process Principles. Nomenclature. Glossary. PART 1: ENGINEERING PROBLEM ANALYSIS. Chapter 1. What Some Chemical Engineers Do for a Living. Chapter 2. Introduction to Engineering Calculations. 2.0 Instructional Objectives. 2.1 Units and Dimensions. 2.2 Conversion of Units. 2.3 Systems of Units. 2.4 Force and Weight. 2.5 Numerical Calculation and Estimation. 2.6 Dimensional Homogeneity and Dimensionless Quantities. 2.7 Process Data Representation and Analysis. 2.8 Summary. Problems. Chapter 3. Processes and Process Variables. 3.0 Instructional Objectives. 3.1 Mass and Volume. 3.2 Flow Rate. 3.3 Chemical Composition. 3.4 Pressure. 3.5 Temperature. 3.6 Summary. Problems. PART 2: MATERIAL BALANCES. Chapter 4. Fundamentals of Material Balances. 4.0 Instructional Objectives. 4.1 Process Classification. 4.2 Balances. 4.3 Material Balance Calculations. 4.4 Balances on Multiple-Unit Processes. 4.5 Recycle and Bypass. 4.6 Chemical Reaction Stoichiometry. 4.7 Balances on Reactive Processes. 4.8 Combustion Reactions. 4.9 Some Additional Considerations about Chemical Processes. 4.10 Summary. Problems. Chapter 5. Single-Phase Systems. 5.0 Instructional Objectives. 5.1 Liquid and Solid Densities. 5.2 Ideal Gases. 5.3 Equations of State for Nonideal Gases. 5.4 The Compressibility Factor Equation of State. 5.5 Summary....



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