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Analysis, Synthesis and Design of Chemical Processes (3rd Edition)

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Prentice Hall, 2009. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Material on the CD-ROM xix Preface xxiii About the Authors xxvii List of Nomenclature xxix SECTION 1: CONCEPTUALIZATION AND ANALYSIS OF CHEMICAL PROCESSES 1 Chapter 1: Diagrams for Understanding Chemical Processes 5 1.1 Block Flow Diagrams (BFDs) 7 1.2 Process Flow Diagram (PFD) 9 1.3 Piping and Instrumentation Diagram (P&ID) 26 1.4 Additional Diagrams 32 1.5 Three-Dimensional Representation of a Process 33 1.6 The 3-D Plant Model 42 1.7 Summary 44 References 45 Short Answer Questions 45 Problems 46 Chapter 2: The Structure and Synthesis of Process Flow Diagrams 51 2.1 Hierarchy of Process Design 51 2.2 Step 1-Batch versus Continuous Process 52 2.3 Step 2-The Input/Output Structure of the Process 57 2.4 Step 3-The Recycle Structure of the Process 68 2.5 Step 4-General Structure of the Separation System 84 2.6 Step 5-Heat-Exchanger Network or Process Energy Recovery System 84 2.7 Information Required and Sources 84 2.8 Summary 84 References 86 Short Answer Questions 88 Problems 88 Chapter 3: Batch Processing 93 3.1 Design Calculations for Batch Processes 93 3.2 Gantt Charts and Scheduling 100 3.3 Nonoverlapping, Overlapping Operations, and Cycle Times 101...



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