



Elements of Chemical Reaction Engineering (4th Edition)

By Fogler, H. Scott

Prentice Hall, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Mole Balances. The Rate of Reaction The General Mole Balance Equation Batch Reactors Continuous-Flow Reactors Industrial Reactors Summary CD-ROM Material Questions and Problems Supplementary Reading2. Conversion and Reactor Sizing. Definition of Conversion Batch Reactor Design Equations Design Equations for Flow Reactors Applications of the Design Equations for Continuous-Flow Reactors Reactors in Series Some Further Definitions Summary CD-ROM Materials Questions and Problems Supplementary Reading3. Rate Laws and Stoichiometry. Part 1. Rate Laws Basic Definitions The Reaction Order and the Rate Law The Reaction Rate Constant Present Status of Our Approach to Reactor Sizing and Design Part 2. Stoichiometry Batch Systems Flow Systems Summary CD-ROM Material Questions and Problems Supplementary Reading4. Isothermal Reactor Design. Part 1. Mole Balances in Terms of Conversion Design Structure for Isothermal Reactors Scale-Up of Liquid-Phase Batch Reactor Data to the Design of a CSTR Design of Continuous Stirred Tank Reactors (CSTRs) Tubular Reactors Pressure Drop in Reactors Synthesizing the Design of a Chemical Plant Part 2. Mole Balances Written in Terms of Concentration and Molar Flow Rate Mole Balances on CSTRs, PFRs, PBRs, and Batch Reactors Microreactors Membrane Reactors...



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