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Pro and Re Re Re Int Po Se 3.5 Se Co Re Re Re Re Re Re Eq	.9 Dynamics of Reactor-Stripper Process3.2 Reactor-Column ocess with Two Reactants; 3.2.1 Nonlinear Dynamic Model of Reactor d Column; 3.2.2 Control Structure for Reactor-Column Process; 3.2.3 actor-Column Process with Hot Reaction; 3.3 AutoRefrigerated actor Control; 3.3.1 Dynamic Model; 3.3.2 Simulation Results; 3.4 actor Temperature Control Using Feed Manipulation; 3.4.1 roduction; 3.4.2 Revised Control Structure; 3.4.3 Results; 3.4.4 Valve sition Control; 3.5 Aspen Dynamics Simulation of CSTRs; 3.5.1 tting up the Dynamic Simulation 5.2 Running the Simulation and Tuning Controllers3.5.3 Results with veral Heat Transfer Options; 3.5.4 Use of RGIBBS Reactor; 3.6 nclusion; 4 CONTROL OF BATCH REACTORS; 4.1 Irreversible, Single actant; 4.1.1 Pure Batch Reactor; 4.1.2 Fed-Batch Reactor; 4.2 Batch actor with Two Reactants; 4.3 Batch Reactor with Consecutive actions; 4.4 Aspen Plus Simulation Using RBatch; 4.5 Ethanol Batch rmentor; 4.6 Fed-Batch Hydrogenation Reactor; 4.7 Batch TML actor; 4.8 Fed-Batch Reactor with Multiple Reactions; 4.8.1 uations; 4.8.2 Effect of Feed Trajectory on Conversion and Selectivity 8.3 Batch Optimization
Ma cho bo tha un cho typ	emical Reactor Design and Control uses process simulators like atlab®, Aspen Plus, and Aspen Dynamics to study the design of emical reactors and their dynamic control. There are numerous oks that focus on steady-state reactor design. There are no books at consider practical control systems for real industrial reactors. This ique reference addresses the simultaneous design and control of emical reactors. After a discussion of reactor basics, it: Covers three bes of classical reactors: continuous stirred tank (CSTR), batch, and bular plug flow Emphasizes tempe