

CHFEN 3553: Chemical Reaction Engineering

Assignment 3: Due February 3, 2006

1. Problem 3-4
2. Problem 3-10
3. Problem 3-16
4. For batch, PFR and CSTR systems with volume change derive integrated or algebraic rate expressions that relate time (batch) or residence time (flow reactors) to desired conversion for the following reactions.
 - a. Zero order
 - b. First order
 - c. First order reversible
 - d. Second order