

A First Course on Kinetics and Reaction Engineering

Unit 23 Additional Quiz Questions

1. Which of the following is true during steady state operation of a CSTR (select all that apply)
 - a. The inlet composition does not change over time
 - b. The outlet composition does not change over time
 - c. The outlet temperature increases steadily
 - d. The outlet temperature increases and levels off at a new value
 - e. The outlet flow rate oscillates
2. True or false? The steady state CSTR design equations are differential equations.
3. True or false? In some cases, using an incorrect shut-down procedure can lead to an explosion.
4. True or false? There is only one correct way to start up a CSTR.
5. True or false? During shut-down a CSTR is operating in a transient mode and should be modeled using the transient CSTR design equations.