

A First Course on Kinetics and Reaction Engineering

Unit 29 Additional Quiz Questions

1. When the outlet from one reactor flows to the inlet of a second reactor, the reactors are said to be connected
 - a. in series
 - b. in parallel
 - c. in series-parallel
 - d. adiabatically
 - e. in space time
2. True or false? For an isothermal autocatalytic reaction, a small CSTR followed in series by a PFR would be preferred over a small PFR followed in series by a CSTR.
3. True or false? A cascade of CSTRs improves performance compared to a single CSTR by reducing the reactant concentration to its final level in multiple steps instead of one single step.
4. True or false? When CSTRs are connected to form a cascade, an extra term must be added to the mole balance design equations for the individual CSTRs to account for reactor connectivity.
5. True or false? When CSTRs are connected to form a cascade, an extra term must be added to the energy balance design equations for the individual CSTRs to account for reactor connectivity.