

Unit 26. Pre-Class Quiz Questions

1. The momentum balance (or mechanical energy balance) for a PFR is used to account for variations in the
 - a. temperature
 - b. molar flow rate of species
 - c. volumetric flow rate
 - d. pressure
 - e. heat
2. The transient PFR design equations are
 - a. algebraic equations
 - b. ordinary differential equations
 - c. partial differential equations
 - d. eigenvalue equations
 - e. integer equations
3. The steady state PFR design equations are
 - a. algebraic equations
 - b. ordinary differential equations
 - c. partial differential equations
 - d. eigenvalue equations
 - e. integer equations
4. The independent variable in the steady state PFR design equations (as presented in the reading) is
 - a. axial position
 - b. temperature
 - c. pressure
 - d. time
 - e. molar flow rate
5. The dependent variables in the PFR design equations (as presented in the reading) are (select all that apply)
 - a. axial position
 - b. temperature
 - c. pressure
 - d. volumetric flow rate
 - e. molar flow rate