

### 1. Chemical Reaction Engineering (CRE):

- Rate of reaction ( $r$ ):  $r = k \cdot C^m \cdot D^n$ , where  $k$  is the rate constant,  $C$  is the concentration of reactants, and  $m$  and  $n$  are the reaction orders.
- Arrhenius equation:  $k = A \cdot e^{-E_a/RT}$ , where  $A$  is the pre-exponential factor,  $E_a$  is the activation energy,  $R$  is the gas constant, and  $T$  is the temperature.
- Design equation for a batch reactor:  $\frac{dC_A}{dt} = -k \cdot C_A^n$

### 2. Process Calculation:

- Material balance equation:  $\Sigma(F_{in}) - \Sigma(F_{out}) + \Sigma(R_{generation}) = 0$
- Energy balance equation:  $\Sigma(H_{in}) - \Sigma(H_{out}) + \Sigma(Q_{in}) - \Sigma(Q_{out}) + \Sigma(W_{in}) - \Sigma(W_{out}) + \Sigma(E_{generation}) = \Delta H_{system}$
- Degree of freedom analysis:  $F = C - P + 2$ , where  $F$  is the degrees of freedom,  $C$  is the number of components, and  $P$  is the number of phases.

### 3. Process Dynamic Control:

- Laplace transform:  $F(s) = \int_0^\infty e^{-st} f(t) dt$
- Transfer function:  $G(s) = \frac{Y(s)}{U(s)}$
- First-order transfer function:  $G(s) = \frac{K}{\tau s + 1}$

### 4. Heat Transfer:

- Fourier's Law of heat conduction:  $q = -k \cdot A \cdot \frac{dT}{dx}$
- Newton's Law of cooling:  $q = h \cdot A \cdot (T_s - T_\infty)$
- Stefan-Boltzmann Law:  $q = \varepsilon \cdot \sigma \cdot A \cdot (T_s^4 - T_\infty^4)$

### 5. Mass Transfer:

- Fick's first law of diffusion:  $J = -D \cdot \frac{dC}{dx}$
- Fick's second law of diffusion:  $\frac{\partial C}{\partial t} = D \cdot \frac{\partial^2 C}{\partial x^2}$
- Overall mass transfer coefficient:  $K_y = \frac{k \cdot a}{\Delta y}$

### 6. Fluid Mechanics:

- Bernoulli's equation:  $P_1 + \frac{1}{2}\rho v_1^2 + \rho g h_1 = P_2 + \frac{1}{2}\rho v_2^2 + \rho g h_2$
- Reynold's number:  $Re = \frac{\rho \cdot v \cdot D}{\mu}$
- Moody's friction factor:  $f = \frac{1}{[1.14 - 2 \log_{10}(Re + \frac{6.5}{D})]^2}$

### 7. Mechanical Operation:

- Particle size distribution:  $\frac{dN}{DD} = \frac{k}{D^n}$
- Energy consumption in size reduction:  $E = K \cdot \left( \frac{1}{D_{average}^{1/n}} - \frac{1}{D_{feed}^{1/n}} \right)$

### 8. Chemical Technology:

- Material balance for a chemical process:  $\frac{F_A}{F_B} = \frac{Yield \cdot Purity}{(1 - Purity) \cdot (1 - Extent of reaction)}$
- Energy balance for a chemical process:  $Q = \Delta H_{reaction} + \Delta H_{formation} + \Delta H_{fusion} + \Delta H_{vaporization}$

### 9. Plant Design Economics:

- Capital investment (CI):  $CI = \text{Fixed capital cost} + \text{Working capital}$
- Operating cost (OC):  $OC = \text{Raw material cost} + \text{Utilities} + \text{Labor} + \text{Maintenance} + \text{Overheads}$
- Total annual cost (TAC):  $TAC = CI + OC$

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**Arshad Iqbal**



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