

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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