

SOLUTIONS MANUAL

Bioprocess Engineering Principles

Pauline M. Doran

$$\eta_{il} = \frac{\tanh \phi_1}{\phi_1}$$

$$\mu = \frac{\mu_{\max} S}{K_S + S}$$

Apparent viscosity

$$Re_1 = \frac{N_1 D_1^2 \rho}{K \dot{\gamma}^{n-1}}$$

Thiele modulus

$$\sum_{\text{input streams}} (\Delta H) - \sum_{\text{output streams}} (\Delta H) - Q + W_s = \Delta E$$

Ideal gas law
Steady-state mass balance

Heat of reaction

$$Nu = 0.87 Re_1^{0.62} Pr^{0.33} \left(\frac{\mu_b}{\mu_w} \right)^{0.14}$$

Dimensional homogeneity

$$\dot{Q} = -k A \frac{dT}{dy}$$

Peclet number

Effective diffusivity

$$\dot{\gamma} = k N_i$$

Specific growth rate

$$\frac{1}{UA} = \frac{1}{h_h A} + \frac{B}{kA} + \frac{1}{h_c A}$$

Fouling factor

$$C_{AS}^* = K_F C_A^{*1/n}$$

SKOW FACTOR

$$\tau_d = \frac{\ln 2}{\mu}$$

$$D_{Az} \frac{\partial^2 C_A}{\partial z^2} + u \frac{-\partial C_A}{\partial z} = \frac{\partial C_A}{\partial t} + \left(\frac{1-\epsilon}{\epsilon} \right) \frac{\partial C_{AS}}{\partial t}$$

$$k_{La} (C_{AL}^* - C_{AL}) = q_O x$$

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Sabine Zange



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The Enigmatic Realm of **Pauline M Doran Solutions Manual**: Unleashing the Language is Inner Magic

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