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**Answers To Bioprocess Engineering Basic Concepts**

Solution Short answer: eqns 1 & 2:  $\text{flux} = D \frac{C_s}{\delta} (C_{s,e} - C_{s,i}) = D \frac{C}{\delta} (C_{i,e} - C_{i,s})$  eqns 3 & 4:  $K = C_{e,s} / C_{s,e} = C_{i,s} / C_{s,i}$  eqn 5:  $C_{\text{total}} = (C_{s,e} + C_{s,i} + C_{e,s} + C_{i,s}) / 2$  solve the above 5 equations for 5 unknowns:  $C_{s,e}$ ,  $C_{s,i}$ ,  $C_{e,s}$ ,  $C_{i,s}$ , & flux Longer answer: more detailed explanation below.

**Homework Statements - Engineering Information Technology**

3.3. Immobilized Enzyme Systems. The restriction of enzyme mobility in a fixed space is known as enzyme immobilization. Immobilization of enzymes provides important advantages, such as enzyme reutilization and elimination of enzyme recovery and purification processes and may provide a better environment for enzyme activity.

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