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(See the comments at the bottom of p125 of Shuler & Kargi on how active transport is different from facilitated transport.) Solution Short answer:

eqns 1 & 2: $\text{flux} = D \cdot C_s / \delta \cdot (C_s - C_i) = D \cdot C / \delta \cdot (C_i - C_e)$ eqns 3 & 4: $K = C_e \cdot S_e / C_s \cdot e = C_i \cdot S_i / C_s \cdot i$ eqn 5: $C_{\text{total}} = (C_s \cdot e + C_s \cdot i + C_e + C_i) / 2$ solve the

above 5 equations for 5 unknowns: $C_s \cdot e$, $C_s \cdot i$, C_e , C_i , & flux Longer answer: more detailed explanation below.

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