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MICHAEL L. SHULER is Professor in the School of Chemical Engineering, Cornell University. His areas of research include structured models, heterologous protein expression systems, cell culture analogs for pharmacokinetic models, in-vitro toxicology, plant-cell tissue culture, microbial functional genomics, and bioremediation.

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

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

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