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Solutions Manual for Bioprocess Engineering: Basic Concepts. Michael L. Shuler, Cornell University. Fikret Kargi, Dokuz Eylul University

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FIKRET KARGI is Professor of Environmental Engineering at Dokuz Eylul University in Ismir, Turkey. His current research includes bioprocessing of wastes for production of commercial products, development of novel technologies for biological treatment of problematic wastewaters, nutrient removal, and novel biofilm reactor development.

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

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