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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:  $\text{flux} = D \frac{CS_e - CS_i}{L} = D C_e \frac{(C_i - C_e)}{L}$  eqns 3 & 4:  $K = C_e \cdot S_e / CS_e = C_i \cdot S_i / CS_i$  eqn 5:  $C_{\text{total}} = (CS_e + CS_i + C_e + C_i) / 2$  solve the above 5 equations for 5 unknowns:  $CS_e$ ,  $CS_i$ ,  $C_e$ ,  $C_i$ , & flux Longer answer: more detailed explanation below.

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