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Solution Short answer: eqns 1 &  
2:  $\text{flux} = D C_s / \delta * (C_{s,e} - C_{s,i}) = D C_s / \delta * (C_{i,i} - C_{e,e})$  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:  $C_{s,e}$  ,  $C_{s,i}$  ,  $C_{e,e}$  ,  $C_{i,i}$  ,

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