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FIKRET KARGI is Professor of Environmental Engineering at
Dokuz Eylul University in Ismir, Turkey. His current research

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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
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(07-10-2015, 06:44 PM) kunal bardiya Wrote: sir i have started studying numericals from Doran as per recommendation, so can you forward me solution manual for Doran for 2nd Edition. Heya, I was going through google to look for the solution manual. I found it with quite an ease. Here it is: Bioprocess by Doran Solutions, Part-1:

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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: $flux = D \frac{C_s - C_i}{L}$
eqns 3 & 4: $K = \frac{C_e - C_i}{C_s - C_i}$
eqn 5: $C_{total} = \frac{C_s + C_i + C_e + C_i}{2}$
solve the above 5 equations for 5 unknowns: C_s , C_i , C_e , C_i , &

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flux Longer answer: more detailed explanation below.

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