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Fikret Kargi is Professor in the Department of Environmental Engineering at Dokuz Eylul University  
His interests include bioprocess engineering, environmental biotechnology, wastewater  
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Solution Manual For Bioprocess Engineering 2nd

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Edition

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

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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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## Bioprocess Engineering Basic Concepts Solution Manual Shuler

(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:  $\text{flux} = D \frac{C_s}{L} (C_{s,e} - C_{s,i}) = D \frac{C}{L} (C_i - C_e)$  eqns 3 & 4:  $K = C_e \cdot S_e / C_{s,e} = C_i \cdot S_i / C_{s,i}$  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.

## Homework Statements - Engineering Information Technology

Bioprocess Engineering: Basic Concepts. Michael L. Shuler, Fikret Kargi. Bioprocess Engineering, Second Edition thoroughly updates the leading introductory textbook on biochemical and bioprocess engineering to reflect advances that are transforming the field -- from genomics to cellular engineering, modeling to nonconventional biological systems. It introduces techniques with wide applicability in pharmaceuticals, biologics, medicine, environmental engineering, and beyond.

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