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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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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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(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: $\text{flux} = D \frac{C_s - C_i}{\delta} = D \frac{C_i - C_e}{\delta}$ eqns 3 & 4: $K = \frac{C_e S_e}{C_s} = \frac{C_i S_i}{C_s}$ eqn 5: $C_{\text{total}} = (C_s + C_i + C_e) / 2$ solve the above 5 equations for 5 unknowns: C_s , C_i , C_e , & 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

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