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Bioprocess Engineering Shuler Kargi Solutions Manual Bioprocess Engineering: Basic Concepts (2nd Edition Fikret Kargi is Professor in the Department of Environmental Engineering at Dokuz Eylul University His interests include bioprocess engineering, environmental biotechnology, wastewater Page 3/21 Page 9/11

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

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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,
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