

Transport Phenomena In Biological Systems

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The subsequent cell-cell transport occurred through the region of contact between the two cells.

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The volume must remain constant, so $4V = ? R_c^3 + ? R_c^2 L$ Solving for the length, $L = \frac{4V - ? R_c^3}{? R_c^2}$ Full file at <http://testbank360.eu/solution-manual-transport-phenomena-in-biological-systems-2nd-edition-truskey> $V = \frac{4}{3} \pi R_c^3$ $(\frac{4}{3} \pi R_c^3) (4 \times 6.5 \times 10^{-6} \text{ m})^3 = \frac{4}{3} \pi (48.2 \times 10^{-6} \text{ m})^2 L$ $L = \frac{4 \times 6.5 \times 10^{-6} \text{ m}}{48.2 \times 10^{-6} \text{ m}} = 0.135 \text{ m}$ (0.135 m) The resulting surface area is $SA = 4\pi R_c^2 + 2\pi R_c L = 4 \times \pi \times (6.5 \times 10^{-6} \text{ m})^2 + 2 \times \pi \times 48.2 \times 10^{-6} \text{ m} \times 0.135 \text{ m} = 894.6 \times 10^{-12} \text{ m}^2$ This is larger than the surface area $530.9 \mu\text{m}^2$ or 1.4 times the surface area ...

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In engineering, physics and chemistry, the study of transport phenomena concerns the exchange of mass, energy, charge, momentum and angular momentum between observed and studied systems. While it draws from fields as diverse as continuum mechanics and thermodynamics, it places a heavy emphasis on the commonalities between the topics covered. Mass, momentum, and heat transport all share a very similar mathematical framework, and the parallels between them are exploited in the study of transport p

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Transport Phenomena in Biological Systems. George A. Truskey, Duke University. Fan Yuan, Duke University. David F. Katz, Duke University

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