

Transport Phenomena In Biological Systems 2nd Edition

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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 $4V = \pi R_c^3 + \pi R_c^2 L$ Solving for the length, $L = \frac{4V - \pi R_c^3}{\pi R_c^2} = \frac{4 \cdot 6.5 \cdot 10^{-12} - \pi (2.66 \cdot 10^{-6})^3}{\pi (2.66 \cdot 10^{-6})^2} = 48.2 \mu\text{m}$ The resulting surface area is $SA = 4\pi R_c^2 + 2\pi R_c L = \pi (4 \cdot 2.66^2 + 2 \cdot 48.2 \cdot 2.66) \mu\text{m}^2 = 894.6 \mu\text{m}^2$ 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

Transport phenomena—Wikipedia

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Teaching transport process to students in medical and biological engineering is very important for their understanding of many of the fluid flow, heat transfer, and mass transfer processes related to biological systems. The classical approach to transport process presentation is compared to an analogical systems approach that is more conceptual and less mathematical.

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