

Solution to Problems in Chapter 1, Section 1.10

1.1. The relative importance of convection and diffusion is evaluated by Péclet number,

$$Pe = \frac{UL}{D_c} \quad (S1.1.1)$$

(a) Solving for L , $L = PeD_c/U$. Assume that convection is the same as diffusion, i.e., $Pe = 1$. L is 0.123 cm.

(b) The distance between capillaries is 10^4 cm; oxygen needs to travel half of this distance, which yields a value of Pe equal to 0.0055. Therefore, convection is negligible compared with diffusion.

1.2. Since $R_{O_2} = R_{CO_2}$, equation (1.8.4) is simplified to the following:

$$C_{O_2} + R_{O_2}P_{O_2} = KC_{Hb}S_{Hb} \quad (S1.2.1)$$

P_{O_2} and S are 95 mmHg and 95% for arterial blood and 30 mmHg, 70% for venous blood. C_{Hb} is 0.0203 and $L^* = 0.45 = 0.0001$ M for men, and 0.0203 and $L^* = 0.40 = 0.0001$ M for women. Based on these data, the fraction of oxygen in plasma and bound to hemoglobin is 1.5% and 98.5% in arterial blood, and 0.03% and 99.97% in venous blood for men. Corresponding values for women are 1.7% and 98.3% in arterial blood, and 0.03% and 99.97% in venous blood. Most oxygen in blood is bound to hemoglobin.

1.3. For CO_2 , 70% is stored in plasma and 30% is in red blood cell. Therefore, the total change of CO_2 is $2.270(70) + 1.060(30) = 2.10$ cm³ per 100 cm³. For O_2 , P_{O_2} changes from 95 to 30 mmHg after blood passes through lung artery. Using data in problem (1.2), the total O_2 concentration in blood is 0.0001 M in arterial blood and 0.0003 M in venous blood. At standard temperature (273.15 K) and pressure (1 atm = 101,325 Pa), 1 mole of gas occupies 22,400 cm³. Thus, the O_2 concentration difference of 0.0003 M corresponds to 1.36 cm³ O_2 per 100 cm³. While larger than the difference for CO_2 , the pressure difference driving transport is much larger for O_2 than CO_2 .

1.4. The diffusion time is $L^2/D_c = (10^4 \text{ cm})^2/(2 \times 10^7 \text{ cm}^2/\text{s}) = 0.0005$ s. Therefore, diffusion is much faster than reaction and does not delay the oxygenation process.

1.5. $V = \pi R^2 L$, and the $S = 2\pi RL$, where R is the vessel radius and L is the length.

Order	volume, cm ³	surface area, cm ²	cumulative volume, cm ³	cumulative surface area, cm ²
1	0.00158	26.27	0.00158	26.27
2	0.00365	37.32	0.00523	63.59
3	0.00739	51.44	0.01262	95.03
4	0.01074	66.23	0.02336	123.27
5	0.01278	76.64	0.03614	149.91
6	0.01447	83.36	0.05061	173.27
7	0.01573	87.96	0.06634	186.79
8	0.01653	91.63	0.08287	198.73
9	0.01698	94.27	0.10005	207.69
10	0.01719	95.79	0.11724	213.69
11	0.01727	96.19	0.13451	217.59

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Table of Contents Solutions Manual For Transport Phenomena In Biological

1. Understanding the eBook Solutions Manual For Transport Phenomena In Biological
 - The Rise of Digital Reading Solutions Manual For Transport Phenomena In Biological
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual For Transport Phenomena In Biological
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solutions Manual For Transport Phenomena In Biological
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual For Transport Phenomena In Biological
 - Personalized Recommendations
 - Solutions Manual For Transport Phenomena In Biological User Reviews and Ratings
 - Solutions Manual For Transport Phenomena In Biological and Bestseller Lists
5. Accessing Solutions Manual For Transport Phenomena In Biological Free and Paid eBooks
 - Solutions Manual For Transport Phenomena In Biological Public Domain eBooks
 - Solutions Manual For Transport Phenomena In Biological eBook Subscription Services
 - Solutions Manual For Transport Phenomena In Biological Budget-Friendly Options
6. Navigating Solutions Manual For Transport Phenomena In Biological eBook Formats
 - ePub, PDF, MOBI, and More
 - Solutions Manual For Transport Phenomena In Biological Compatibility with Devices
 - Solutions Manual For Transport Phenomena In Biological Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solutions Manual For Transport Phenomena In Biological
 - Highlighting and Note-Taking Solutions Manual For Transport Phenomena In Biological
 - Interactive Elements Solutions Manual For Transport Phenomena In Biological
8. Staying Engaged with Solutions Manual For Transport Phenomena In Biological

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Manual For Transport Phenomena In Biological
9. Balancing eBooks and Physical Books Solutions Manual For Transport Phenomena In Biological
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Manual For Transport Phenomena In Biological
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solutions Manual For Transport Phenomena In Biological
- Setting Reading Goals Solutions Manual For Transport Phenomena In Biological
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solutions Manual For Transport Phenomena In Biological
- Fact-Checking eBook Content of Solutions Manual For Transport Phenomena In Biological
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
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 - Interactive and Gamified eBooks

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