
Basic Transport Phenomena in Biomedical Engineering 4th Edition Fournier Solutions Manual

Chapter 1 Solutions

Problem 1.1. Use the conversion factors

$$\frac{8.314\text{J}}{\text{mol K}} \times \frac{0.23901\text{cal}}{\text{J}} = 1.987 \frac{\text{cal}}{\text{mol K}}$$

Problem 1.2. Use Equation 1.2 to convert the temperature to degrees Celsius

$$t^{\circ}\text{C} = \frac{5}{9}(t^{\circ}\text{F} - 32) = \frac{5}{9}(98.6 - 32) = 37^{\circ}\text{C}$$

Now, use Equation 1.3 to convert the temperature from degrees Celsius to Kelvin

$$T^{\circ}\text{K} = t^{\circ}\text{C} + 273.15 = 37 + 273.15 = 310.15 \text{ K}$$

Problem 1.3. Use the conversion factors

$$2 \times 10^3 \mu\text{dynes} \times \frac{\text{dynes}}{10^6 \mu\text{dynes}} \times \frac{\text{N}}{10^5 \text{dynes}} \times \frac{\text{kN}}{10^3 \text{N}} = 2 \times 10^{-10} \text{ kN}$$

Problem 1.4. Use the conversion factors

$$\frac{27 \mu\text{m}}{\text{hr}} \times \frac{10^{-6} \text{ m}}{\mu\text{m}} \times \frac{0.0006214 \text{ miles}}{\text{m}} \times \frac{\text{hr}}{60 \text{ min}} \times \frac{\text{min}}{60 \text{ sec}} = 4.66 \times 10^{-12} \frac{\text{miles}}{\text{sec}}$$

Problem 1.5. Use the conversion factors

$$48 \text{ MW} \times \frac{10^6 \text{ W}}{\text{MW}} \times \frac{\text{kg m}^2}{\text{sec}^2 \text{ W}} \times \frac{10^3 \text{ g}}{\text{kg}} \times \frac{100 \text{ cg}}{\text{g}} \times \frac{3600^3 \text{ sec}^3}{\text{hr}^3} \times \frac{100^2 \text{ cm}^2}{\text{m}^2} = 2.24 \times 10^{27} \frac{\text{cgcm}^2}{\text{hr}^3}$$

$$48 \text{ MW} \times \frac{10^6 \text{ W}}{\text{MW}} \times \frac{\text{J}}{\text{sec W}} \times \frac{\text{kJ}}{10^3 \text{ J}} \times \frac{60 \text{ sec}}{\text{min}} = 2.88 \times 10^6 \frac{\text{kJ}}{\text{min}}$$

Problem 1.6. Use the conversion factors to get both values into units of mm per second and then compare the two values for the higher value.

Basic Transport Phenomena In Biomedical Engineering

Yijin Wang



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Table of Contents Basic Transport Phenomena In Biomedical Engineering

1. Understanding the eBook Basic Transport Phenomena In Biomedical Engineering
 - The Rise of Digital Reading Basic Transport Phenomena In Biomedical Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Transport Phenomena In Biomedical Engineering
 - 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 Basic Transport Phenomena In Biomedical Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Transport Phenomena In Biomedical Engineering
 - Personalized Recommendations
 - Basic Transport Phenomena In Biomedical Engineering User Reviews and Ratings
 - Basic Transport Phenomena In Biomedical Engineering and Bestseller Lists
5. Accessing Basic Transport Phenomena In Biomedical Engineering Free and Paid eBooks
 - Basic Transport Phenomena In Biomedical Engineering Public Domain eBooks
 - Basic Transport Phenomena In Biomedical Engineering eBook Subscription Services
 - Basic Transport Phenomena In Biomedical Engineering Budget-Friendly Options

6. Navigating Basic Transport Phenomena In Biomedical Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Transport Phenomena In Biomedical Engineering Compatibility with Devices
 - Basic Transport Phenomena In Biomedical Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Transport Phenomena In Biomedical Engineering
 - Highlighting and Note-Taking Basic Transport Phenomena In Biomedical Engineering
 - Interactive Elements Basic Transport Phenomena In Biomedical Engineering
8. Staying Engaged with Basic Transport Phenomena In Biomedical Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Transport Phenomena In Biomedical Engineering
9. Balancing eBooks and Physical Books Basic Transport Phenomena In Biomedical Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Transport Phenomena In Biomedical Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Transport Phenomena In Biomedical Engineering
 - Setting Reading Goals Basic Transport Phenomena In Biomedical Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Transport Phenomena In Biomedical Engineering
 - Fact-Checking eBook Content of Basic Transport Phenomena In Biomedical Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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