
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

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

Problem 1.3. Use the conversion factors

$$2 \times 10^4 \text{ dynes} \times \frac{\text{dynes}}{10^6 \text{ dynes}} \times \frac{\text{N}}{105 \text{ dynes}} \times \frac{\text{kN}}{10^3 \text{ N}} = 2 \times 10^{-10} \text{ kN}$$

Problem 1.4. Use the conversion factors

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

Problem 1.5. Use the conversion factors

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

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

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.

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Solution's Manual - Basic Transport Phenomena in Biomedical Engineering Taylor & Francis Group,2012-01-15

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