
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

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