

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

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

Problem 1.3. Use the conversion factors

$$2 \times 10^4 \mu\text{dynes} \times \frac{\text{dynes}}{10^6 \mu\text{dynes}} \times \frac{\text{N}}{10^5 \text{dynes}} \times \frac{\text{kN}}{10^3 \text{N}} = 2 \times 10^{-10} \text{kN}$$

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

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

$$48 \text{MW} \times \frac{10^6 \text{W}}{\text{MW}} \times \frac{\text{J}}{\text{sec W}} \times \frac{\text{kJ}}{10^3 \text{J}} \times \frac{60 \text{sec}}{1 \text{min}} = 2.88 \times 10^6 \frac{\text{kJ}}{\text{min}}$$

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.

Transport Phenomena In Metallurgy Solution Manual

L Reisser



Transport Phenomena In Metallurgy Solution Manual:

Transport Phenomena In Metallurgy Solution Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Transport Phenomena In Metallurgy Solution Manual**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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