

Problem 1.6

Make a guess at the order of magnitude of the mass (e.g., 0.01, 0.1, 1.0, 10, 100, or 1000 lbm or kg) of standard air that is in a room 10 ft by 10 ft by 8 ft, and then compute this mass in lbm and kg to see how close your estimate was.

Solution

Given: Dimensions of a room.

Find: Mass of air in lbm and kg.

The data for standard air are:

$$R_{\text{air}} = 53.33 \frac{\text{ft} \cdot \text{lbf}}{\text{lbm} \cdot \text{R}} \quad p = 14.7 \cdot \text{psi} \quad T = (59 + 460) \cdot \text{R} = 519 \cdot \text{R}$$

Then

$$\rho = \frac{p}{R_{\text{air}} \cdot T}$$

$$\rho = 14.7 \cdot \frac{\text{lbf}}{\text{in}^2} \times \frac{1}{53.33} \cdot \frac{\text{lbm} \cdot \text{R}}{\text{ft} \cdot \text{lbf}} \times \frac{1}{519 \cdot \text{R}} \times \left(\frac{12 \cdot \text{in}}{1 \cdot \text{ft}} \right)^2$$

$$\rho = 0.0765 \frac{\text{lbm}}{\text{ft}^3} \quad \text{or} \quad \rho = 1.23 \frac{\text{kg}}{\text{m}^3}$$

The volume of the room is

$$V = 10 \cdot \text{ft} \times 10 \cdot \text{ft} \times 8 \cdot \text{ft} \quad V = 800 \text{ ft}^3$$

The mass of air is then

$$m = \rho \cdot V$$

$$m = 0.0765 \cdot \frac{\text{lbm}}{\text{ft}^3} \times 800 \cdot \text{ft}^3 \quad m = 61.2 \text{ lbm} \quad m = 27.8 \text{ kg}$$

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