

Physics Homework Solutions

1. Determine the atmospheric pressure:

$$P = h \times \rho \times g$$

Where:

$$- h = 720 \text{ mm} = 0.720 \text{ m}$$

$$- \rho = 13595 \text{ kg/m}^3 \text{ (density of mercury at } 20^\circ\text{C)}$$

$$- g = 9.805 \text{ m/s}^2$$

$$P = 0.720 \times 13595 \times 9.805$$

$$P = 95,922 \text{ Pa}$$

2. Fraction of the iceberg below water:

$$- \rho_{\text{iceberg}} = 917 \text{ kg/m}^3$$

$$- \rho_{\text{seawater}} = 1020 \text{ kg/m}^3$$

$$\text{Fraction submerged} = 917 / 1020 = 0.899.$$

3

(a). Buoyant force on the steel:

$$F_b = \rho_{\text{water}} \times V_{\text{displaced}} \times g$$

$$- \rho_{\text{water}} = 1000 \text{ kg/m}^3$$

$$- V_{\text{displaced}} = \text{mass} / \rho_{\text{steel}}$$

$$- \text{Mass of steel} = 15000 \text{ metric tons} = 1.5 \times 10^7 \text{ kg}$$

$$V_{\text{displaced}} = 1.5 \times 10^7 / 7850 = 1911.46 \text{ m}^3$$

$$F_b = 1000 \times 1911.46 \times 9.805 = 1.875 \times 10^7 \text{ N}$$

The buoyant force is approximately $1.875 \times 10^7 \text{ N}$.

Weight of steel:

$$W = m \times g = 1.5 \times 10^7 \times 9.805 = 1.471 \times 10^8 \text{ N}$$

Comparison:

$$- \text{Buoyant force: } 1.875 \times 10^7 \text{ N}$$

$$- \text{Weight of steel: } 1.471 \times 10^8 \text{ N}$$

The buoyant force is much smaller than the steel's weight, so the steel will sink.

3(b). Maximum buoyant force for displaced water:

$$F_b = \rho_{\text{water}} \times V_{\text{displaced}} \times g$$

Given:

$$- V_{\text{displaced}} = 3.00 \times 10^3 \text{ m}^3$$

$$- \rho_{\text{water}} = 1000 \text{ kg/m}^3$$

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