

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:

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

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

Physics Homework Solutions

Andrew R. King, Oded Regev



Physics Homework Solutions:

Whispering the Techniques of Language: An Psychological Quest through **Physics Homework Solutions**

In a digitally-driven world where screens reign great and quick communication drowns out the subtleties of language, the profound strategies and psychological subtleties concealed within words often go unheard. However, located within the pages of **Physics Homework Solutions** a fascinating fictional treasure blinking with fresh emotions, lies a fantastic quest waiting to be undertaken. Published by a talented wordsmith, this wonderful opus attracts visitors on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within ab muscles cloth of each and every word. Within the mental depths of this moving evaluation, we can embark upon a honest exploration of the book is core subjects, dissect their charming writing style, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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