

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:

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

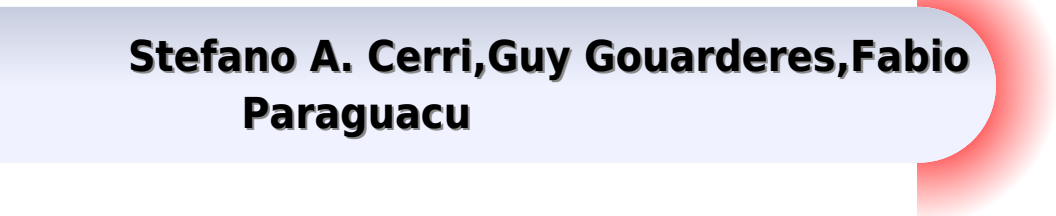
Given:

$$- V_{\text{displaced}} = 3.00 \times 10^5 \text{ m}^3$$

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

Smart Physics Homework Solutions

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Table of Contents Smart Physics Homework Solutions

1. Understanding the eBook Smart Physics Homework Solutions
 - The Rise of Digital Reading Smart Physics Homework Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Smart Physics Homework Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Smart Physics Homework Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smart Physics Homework Solutions
 - Personalized Recommendations
 - Smart Physics Homework Solutions User Reviews and Ratings
 - Smart Physics Homework Solutions and Bestseller Lists
5. Accessing Smart Physics Homework Solutions Free and Paid eBooks

- Smart Physics Homework Solutions Public Domain eBooks
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- Smart Physics Homework Solutions Budget-Friendly Options
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 - Highlighting and Note-Taking Smart Physics Homework Solutions
 - Interactive Elements Smart Physics Homework Solutions
- 8. Staying Engaged with Smart Physics Homework Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smart Physics Homework Solutions
- 9. Balancing eBooks and Physical Books Smart Physics Homework Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smart Physics Homework Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Smart Physics Homework Solutions
 - Setting Reading Goals Smart Physics Homework Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smart Physics Homework Solutions
 - Fact-Checking eBook Content of Smart Physics Homework Solutions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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