

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 Answers

JE Gale



Physics Homework Solutions Answers:

This book delves into Physics Homework Solutions Answers. Physics Homework Solutions Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physics Homework Solutions Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physics Homework Solutions Answers
 - Chapter 2: Essential Elements of Physics Homework Solutions Answers
 - Chapter 3: Physics Homework Solutions Answers in Everyday Life
 - Chapter 4: Physics Homework Solutions Answers in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Physics Homework Solutions Answers. This chapter will explore what Physics Homework Solutions Answers is, why Physics Homework Solutions Answers is vital, and how to effectively learn about Physics Homework Solutions Answers.
3. In chapter 2, this book will delve into the foundational concepts of Physics Homework Solutions Answers. This chapter will elucidate the essential principles that must be understood to grasp Physics Homework Solutions Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Physics Homework Solutions Answers in daily life. This chapter will showcase real-world examples of how Physics Homework Solutions Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Physics Homework Solutions Answers in specific contexts. The fourth chapter will explore how Physics Homework Solutions Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Physics Homework Solutions Answers. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physics Homework Solutions Answers.

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