

1-11 Gravitational acceleration g and thus the weight of bodies decreases with increasing elevation. The percent reduction in the weight of an airplane cruising at 13,000 m is to be determined.

Properties The gravitational acceleration g is given to be 9.807 m/s^2 at sea level and 9.767 m/s^2 at an altitude of 13,000 m.

Analysis Weight is proportional to the gravitational acceleration g , and thus the percent reduction in weight is equivalent to the percent reduction in the gravitational acceleration, which is determined from

$$\begin{aligned} \% \text{Reduction in weight} &= \% \text{Reduction in } g \\ &= \frac{\Delta g}{g} \times 100 = \frac{9.807 - 9.767}{9.807} \times 100 = \mathbf{0.41\%} \end{aligned}$$

Therefore, the airplane and the people in it will weight 0.41% less at 13,000 m altitude.

Discussion Note that the weight loss at cruising altitudes is negligible.

1-12 A plastic tank is filled with water. The weight of the combined system is to be determined.

Assumptions The density of water is constant throughout.

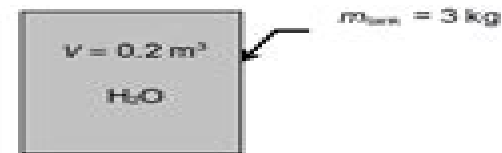
Properties The density of water is given to be $\rho = 1000 \text{ kg/m}^3$.

Analysis The mass of the water in the tank and the total mass are

$$\begin{aligned} m_w &= \rho V = (1000 \text{ kg/m}^3)(0.2 \text{ m}^3) = 200 \text{ kg} \\ m_{\text{total}} &= m_w + m_{\text{tank}} = 200 + 3 = 203 \text{ kg} \end{aligned}$$

Thus,

$$W = mg = (203 \text{ kg})(9.81 \text{ m/s}^2) \left(\frac{1 \text{ N}}{1 \text{ kg} \cdot \text{m/s}^2} \right) = \mathbf{1991 \text{ N}}$$



1-13 A rock is thrown upward with a specified force. The acceleration of the rock is to be determined.

Analysis The weight of the rock is

$$W = mg = (2 \text{ kg})(9.79 \text{ m/s}^2) \left(\frac{1 \text{ N}}{1 \text{ kg} \cdot \text{m/s}^2} \right) = 19.58 \text{ N}$$

Then the net force that acts on the rock is

$$F_{\text{net}} = F_{\text{up}} - F_{\text{down}} = 200 - 19.58 = 180.4 \text{ N}$$

From the Newton's second law, the acceleration of the rock becomes

$$a = \frac{F}{m} = \frac{180.4 \text{ N}}{2 \text{ kg}} \left(\frac{1 \text{ kg} \cdot \text{m/s}^2}{1 \text{ N}} \right) = \mathbf{90.2 \text{ m/s}^2}$$



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Camilla Rothe



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Table of Contents Property Tableslet For Use With Thernodynamics An Engineering Approach

1. Understanding the eBook Property Tableslet For Use With Thernodynamics An Engineering Approach
 - The Rise of Digital Reading Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Advantages of eBooks Over Traditional Books
2. Identifying Property Tableslet For Use With Thernodynamics An Engineering Approach
 - 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 Property Tableslet For Use With Thernodynamics An Engineering Approach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Personalized Recommendations
 - Property Tableslet For Use With Thernodynamics An Engineering Approach User Reviews and Ratings

- Property Tableslet For Use With Thernodynamics An Engineering Approach and Bestseller Lists
- 5. Accessing Property Tableslet For Use With Thernodynamics An Engineering Approach Free and Paid eBooks
 - Property Tableslet For Use With Thernodynamics An Engineering Approach Public Domain eBooks
 - Property Tableslet For Use With Thernodynamics An Engineering Approach eBook Subscription Services
 - Property Tableslet For Use With Thernodynamics An Engineering Approach Budget-Friendly Options
- 6. Navigating Property Tableslet For Use With Thernodynamics An Engineering Approach eBook Formats
 - ePub, PDF, MOBI, and More
 - Property Tableslet For Use With Thernodynamics An Engineering Approach Compatibility with Devices
 - Property Tableslet For Use With Thernodynamics An Engineering Approach Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Highlighting and Note-Taking Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Interactive Elements Property Tableslet For Use With Thernodynamics An Engineering Approach
- 8. Staying Engaged with Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Property Tableslet For Use With Thernodynamics An Engineering Approach
- 9. Balancing eBooks and Physical Books Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Property Tableslet For Use With Thernodynamics An Engineering Approach
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Setting Reading Goals Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Property Tableslet For Use With Thernodynamics An Engineering Approach
 - Fact-Checking eBook Content of Property Tableslet For Use With Thernodynamics An Engineering Approach

- 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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