

SOLUTIONS
THEMODYNAMICS PRACTICE PROBLEMS FOR NON-TECHNICAL MAJORS

Thermodynamic Properties

1. If an object has a weight of 10 lbf on the moon, what would the same object weigh on Jupiter?

$$g_{\text{Jupiter}} = 75 \frac{\text{ft}}{\text{sec}^2} \quad g_{\text{Moon}} = 5.4 \frac{\text{ft}}{\text{sec}^2} \quad g_c = 32 \frac{\text{lbm-ft}}{\text{lbf-sec}^2}$$

$$|W| = \frac{mg}{g_c} \Rightarrow m = \frac{|W|_{\text{Moon}} g_c}{g_{\text{Moon}}} = \frac{10 \times 32}{5.4} = 59.26 \text{ lbm}$$

$$|W|_{\text{Jupiter}} = \frac{mg_{\text{Jupiter}}}{g_c} = \frac{59.26 \times 75}{32} = \boxed{139 \text{ lbf}}$$

2. An object that weighs 50 lbf on earth is moved to Saturn where its new weight is 105 lbf. What is the acceleration due to gravity on Saturn?

$$g_{\text{Earth}} = 32 \frac{\text{ft}}{\text{sec}^2} \quad g_c = 32 \frac{\text{lbm-ft}}{\text{lbf-sec}^2}$$

$$50 \text{ lbf on earth} \Rightarrow 50 \text{ lbm}$$

$$|W| = \frac{mg}{g_c} \Rightarrow g = \frac{|W| g_c}{m} = \frac{105 \times 32}{50} = \boxed{67.2 \frac{\text{ft}}{\text{sec}^2}}$$

3. Define, using equations, specific volume (v) and density (ρ). What is the mathematical relationship between these two terms?

$$v = \frac{V}{m}, \quad \rho = \frac{m}{V}, \quad v = \frac{1}{\rho} \text{ or } \rho = \frac{1}{v}$$

Temperature and Pressure Measurements

4. (a) Define temperature.
(b) What is the absolute temperature scale corresponding to Fahrenheit?
(c) Convert 100° F to that absolute scale.

(a) Temperature: a measure of molecular activity of a substance.

(b) Rankine

(c) °R = °F + 460 \Rightarrow 100° F converts to 560° R

Thermodynamics Sample Problems With Solutions

Clifford Lane



Thermodynamics Sample Problems With Solutions:

The book delves into Thermodynamics Sample Problems With Solutions. Thermodynamics Sample Problems With Solutions is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Thermodynamics Sample Problems With Solutions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Thermodynamics Sample Problems With Solutions
- Chapter 2: Essential Elements of Thermodynamics Sample Problems With Solutions
- Chapter 3: Thermodynamics Sample Problems With Solutions in Everyday Life
- Chapter 4: Thermodynamics Sample Problems With Solutions in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Thermodynamics Sample Problems With Solutions. The first chapter will explore what Thermodynamics Sample Problems With Solutions is, why Thermodynamics Sample Problems With Solutions is vital, and how to effectively learn about Thermodynamics Sample Problems With Solutions.

3. In chapter 2, this book will delve into the foundational concepts of Thermodynamics Sample Problems With Solutions. The second chapter will elucidate the essential principles that need to be understood to grasp Thermodynamics Sample Problems With Solutions in its entirety.

4. In chapter 3, this book will examine the practical applications of Thermodynamics Sample Problems With Solutions in daily life. This chapter will showcase real-world examples of how Thermodynamics Sample Problems With Solutions can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Thermodynamics Sample Problems With Solutions in specific contexts. The fourth chapter will explore how Thermodynamics Sample Problems With Solutions is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Thermodynamics Sample Problems With Solutions. 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 Thermodynamics Sample Problems With Solutions.

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Table of Contents Thermodynamics Sample Problems With Solutions

1. Understanding the eBook Thermodynamics Sample Problems With Solutions
 - The Rise of Digital Reading Thermodynamics Sample Problems With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics Sample Problems With 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 Thermodynamics Sample Problems With Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics Sample Problems With Solutions
 - Personalized Recommendations
 - Thermodynamics Sample Problems With Solutions User Reviews and Ratings
 - Thermodynamics Sample Problems With Solutions and Bestseller Lists
5. Accessing Thermodynamics Sample Problems With Solutions Free and Paid eBooks
 - Thermodynamics Sample Problems With Solutions Public Domain eBooks
 - Thermodynamics Sample Problems With Solutions eBook Subscription Services
 - Thermodynamics Sample Problems With Solutions Budget-Friendly Options
6. Navigating Thermodynamics Sample Problems With Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermodynamics Sample Problems With Solutions Compatibility with Devices
 - Thermodynamics Sample Problems With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermodynamics Sample Problems With Solutions
 - Highlighting and Note-Taking Thermodynamics Sample Problems With Solutions
 - Interactive Elements Thermodynamics Sample Problems With Solutions

8. Staying Engaged with Thermodynamics Sample Problems With Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermodynamics Sample Problems With Solutions
9. Balancing eBooks and Physical Books Thermodynamics Sample Problems With Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermodynamics Sample Problems With Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Thermodynamics Sample Problems With Solutions
 - Setting Reading Goals Thermodynamics Sample Problems With Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Thermodynamics Sample Problems With Solutions
 - Fact-Checking eBook Content of Thermodynamics Sample Problems With 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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