

Problem 1.7

A tank of compressed nitrogen for industrial process use is a cylinder with 6 in. diameter and 4.25 ft length. The gas pressure is 204 atmospheres (gage). Calculate the mass of nitrogen in the tank.

Given: Data on nitrogen tank

Find: Mass of nitrogen

Solution

The given or available data is:

$$D = 6\text{-in}$$

$$L = 4.25\text{-ft}$$

$$p = 204\text{-atm}$$

$$T = (59 + 460)\text{-R}$$

$$T = 519\text{ R}$$

$$R_{N_2} = 55.16 \cdot \frac{\text{ft}\cdot\text{lb}_f}{\text{lb}\cdot\text{R}} \quad (\text{Table A.6})$$

The governing equation is the ideal gas equation

$$p = \rho \cdot R_{N_2} \cdot T$$

and

$$\rho = \frac{M}{V}$$

where V is the tank volume

$$V = \frac{\pi}{4} \cdot D^2 \cdot L$$

$$V = \frac{\pi}{4} \times \left(\frac{6}{12} \cdot \text{ft} \right)^2 \times 4.25\text{-ft} = 0.834\text{ ft}^3$$

Hence

$$M = V \cdot \rho = \frac{p \cdot V}{R_{N_2} \cdot T}$$

$$M = 204 \times 14.7 \cdot \frac{\text{lb}_f}{\text{in}^2} \times \frac{144 \cdot \text{in}^2}{\text{ft}^2} \times 0.834\text{-ft}^3 \times \frac{1}{55.16} \cdot \frac{\text{lb}\cdot\text{R}}{\text{ft}\cdot\text{lb}_f} \times \frac{1}{519} \cdot \frac{1}{\text{R}} \times 32.2 \cdot \frac{\text{lb}\cdot\text{ft}}{\text{s}^2\cdot\text{lb}_f}$$

$$M = 12.6\text{ lb}$$

$$M = 0.391\text{ slug}$$

Fox Fluid Mechanics Solution Manual 6th

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Table of Contents Fox Fluid Mechanics Solution Manual 6th

1. Understanding the eBook Fox Fluid Mechanics Solution Manual 6th
 - The Rise of Digital Reading Fox Fluid Mechanics Solution Manual 6th
 - Advantages of eBooks Over Traditional Books
2. Identifying Fox Fluid Mechanics Solution Manual 6th
 - 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 Fox Fluid Mechanics Solution Manual 6th
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fox Fluid Mechanics Solution Manual 6th
 - Personalized Recommendations

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

- 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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