

$$A_n = \frac{\dot{m}}{\rho_a V_a} = \frac{0.047}{(0.0051)(1500)} = 0.0061 \text{ ft}^2$$


---

**4.12**  $V_1 = 1500 \text{ mph} = 1500 \left( \frac{88}{60} \right) = 2200 \text{ ft/sec}$

$$C_p T_1 + \frac{V_1^2}{2} = C_p T_2 + \frac{V_2^2}{2}$$

$$V_2^2 = 2 C_p (T_1 - T_2) + V_1^2$$

$$V_2^2 = 2 (6000)(789.99 - 793.32) + (2200)^2$$

$$V_2 = 6.3 \text{ ft/sec}$$

Note: This is a very small velocity compared to the initial freestream velocity of 2200 ft/sec. At the point in question, the velocity is very near zero, and hence the point is nearly a stagnation point.

---

**4.13** At the inlet, the mass flow of air is

$$\dot{m}_{in} = \rho A V = (3.6391 \times 10^{-4})(20)(2200) = 16.0 \text{ slug/sec}$$

$$\dot{m}_{fuel} = (0.05)(16.01) = 0.8 \text{ slug/sec}$$

$$\text{Total mass flow at exit} = 16.01 + 0.8 = 16.81 \text{ slug/sec}$$


---

**4.14** From problem 4.11,

$$V_a = 1500 \text{ ft/sec}$$

$$T_a = 812.5 \text{ R}$$

Hence,

# Mechanics Of Flight Solutions Manual

**Shasha Hu**



## **Mechanics Of Flight Solutions Manual:**

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### **Table of Contents Mechanics Of Flight Solutions Manual**

1. Understanding the eBook Mechanics Of Flight Solutions Manual
  - The Rise of Digital Reading Mechanics Of Flight Solutions Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Flight Solutions Manual
  - 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 Mechanics Of Flight Solutions Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Flight Solutions Manual
  - Personalized Recommendations

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

- 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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