

- (b) (i) Briefly describe combustion mechanism of composite solid propellants and sketch a typical temperature profile in the condensed phase of propellant. (8)
- (ii) Mention any two types of turbine feed systems in liquid propellant rocket engines and illustrate them. Explain the operation of the feed system types. (8)
12. (a) (i) Discuss the importance of boat tailing in the airframe design of supersonic missiles. Sketch the pressure distribution on a typical boat tail configuration. (8)
- (ii) What is the role of fins on the missile flight stability? How is the normal force distribution of the missile affected by the presence of fins? (8)
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- Or
- (b) (i) With neat illustrations explain the following methods of distribution of forces and moments for rockets –  
Body fitted coordinate system and flow system of coordinates. (8)
- (ii) Distinguish between the following with neat sketches as applied to missile wings:  
Subsonic and supersonic trailing edges by subsonic and supersonic leading edges. (8)
13. (a) (i) Derive the fundamental equation for rocket flight assuming that the rocket motion is one-dimensional. Further assuming that the rocket thrust is constant, derive an expression for range of the rocket. (8)
- (ii) Describe the phenomenon 'impulsive shot' in rocket propulsion. What are the applications of impulsive thrust units. (8)
- Or
- (b) (i) Show that rocket trajectory is a straight line if the specific thrust of the rocket is constant when the rocket undergoes a constant pitch angle trajectory. (8)
- (ii) Derive the equations of motion of a rocket in a gravity turn trajectory? How are velocity and range as functions of time determined? (8)

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### **Table of Contents Aeronautical Engineering Anna University Question Paper**

1. Understanding the eBook Aeronautical Engineering Anna University Question Paper
  - The Rise of Digital Reading Aeronautical Engineering Anna University Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Aeronautical Engineering Anna University Question Paper
  - 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 Aeronautical Engineering Anna University Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aeronautical Engineering Anna University Question Paper

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

- Fact-Checking eBook Content of Aeronautical Engineering Anna University Question Paper
- 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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