

GUJARAT TECHNOLOGICAL UNIVERSITY**BE-SEM-VIII Examination May 2012****Subject code: 180104****Subject Name: Aircraft Control and Navigation****Date: 08/05/2012****Time: 10.30 am – 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Explain missile control system in detail. 07
 (b) Analyze relation between Dutch Roll and Damping 07
- Q.2 (a) Write Short Notes on : 07
 (i) Cross Coupling
 (ii) Acceleration Control 07
 (b) Explain Pitch Orientation Control System with the help of suitable Block Diagram OR 07
 (b) Write Short Notes on : 07
 (i) Euler Angle
 (ii) Celestial Navigation System
- Q.3 (a) Explain working principle of Servomechanism. What role it plays in Automatic Control of Aircraft? 07
 (b) Explain difference between inner loop and outer loop control system of Automatic Flight control. OR 07
- Q.3 (a) Develop an equation of motion of an aircraft. 07
 (b) Explain the working of a satellite based navigational system using suitable diagrams. 07
- Q.4 (a) Write in brief the purpose and principle of working of a weather radar. 07
 (b) Write Short Notes on (any Two) : 07
 (i) Sensors
 (ii) Output devices OR
- Q.4 (a) Compare Dead Reckoning and Radio Navigation System. 07
 (b) Explain what role GPS plays in aircraft navigation. 07
- Q.5 (a) Write Short Notes on : 07
 (i) Automatic Flare Control
 (ii) Controllability of Aircraft
 (b) Explain the purpose of Automatic Fuel Control System in an aircraft. Explain how does it work in a large Jet airliner. 07 OR
- Q.5 (a) Explain how Flight Management and Flight Direction Systems are combined. 07
 (b) Analyze the relation between role of aircraft and choice of Navigation System 07

Aeronautical Engineering Fourth Semester Notes

RJ Alexander



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Table of Contents Aeronautical Engineering Fourth Semester Notes

1. Understanding the eBook Aeronautical Engineering Fourth Semester Notes
 - The Rise of Digital Reading Aeronautical Engineering Fourth Semester Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Aeronautical Engineering Fourth Semester Notes
 - 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 Fourth Semester Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aeronautical Engineering Fourth Semester Notes
 - Personalized Recommendations
 - Aeronautical Engineering Fourth Semester Notes User Reviews and Ratings
 - Aeronautical Engineering Fourth Semester Notes and Bestseller Lists
5. Accessing Aeronautical Engineering Fourth Semester Notes Free and Paid eBooks
 - Aeronautical Engineering Fourth Semester Notes Public Domain eBooks
 - Aeronautical Engineering Fourth Semester Notes eBook Subscription Services
 - Aeronautical Engineering Fourth Semester Notes Budget-Friendly Options
6. Navigating Aeronautical Engineering Fourth Semester Notes eBook Formats

- ePub, PDF, MOBI, and More
 - Aeronautical Engineering Fourth Semester Notes Compatibility with Devices
 - Aeronautical Engineering Fourth Semester Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aeronautical Engineering Fourth Semester Notes
 - Highlighting and Note-Taking Aeronautical Engineering Fourth Semester Notes
 - Interactive Elements Aeronautical Engineering Fourth Semester Notes
 8. Staying Engaged with Aeronautical Engineering Fourth Semester Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aeronautical Engineering Fourth Semester Notes
 9. Balancing eBooks and Physical Books Aeronautical Engineering Fourth Semester Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aeronautical Engineering Fourth Semester Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Aeronautical Engineering Fourth Semester Notes
 - Setting Reading Goals Aeronautical Engineering Fourth Semester Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Aeronautical Engineering Fourth Semester Notes
 - Fact-Checking eBook Content of Aeronautical Engineering Fourth Semester Notes
 - 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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