

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. OR 07
- 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

Purdue University



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Parks College of Aeronautical Technology Parks College of Aeronautical Technology of Saint Louis University (Cahokia, Ill.),1961 *Engineering Education, Preparation for Life* American Society for Engineering Education. Conference,1984

Engineering Physics Volume I (For 1st Year of JNTU, Kakinada) Kumar, Vijaya K., Interference Diffraction Polarization Crystal Structures Crystal Planes And X Ray Diffraction Laser Fiberoptics Non Destructive Testing Using Ultrasonics Question Papers Appendix *Proceedings* American Society for Engineering Education. Conference,1988

ASEE 1995-1996 Profiles of Engineering & Engineering Technology Colleges ,1997 College of Engineering University of Michigan. College of Engineering,1917 **The Alumni Quarterly and Fortnightly Notes** ,1919 *The Alumni Quarterly and Fortnightly Notes of the University of Illinois* ,1920 ASEE ... Profiles of Engineering & Engineering Technology Colleges ,1995 **The Michigan technic** ,1920 **Curriculum Handbook with General Information**

Concerning ... for the United States Air Force Academy United States Air Force Academy,1996 **Michigan Technic** ,1921 **The Technic** ,1921 General Catalog Louisiana State University (Baton Rouge, La.),1953 Host Bibliographic Record for Boundwith Item Barcode 30112114004432 and Others ,1930 **Aeronautical Engineering Review** ,1956

Proceedings of the Annual Meeting American Society for Engineering Education,Society for the Promotion of Engineering,1984 China's Four Modernizations Richard Baum,2019-03-13 With the death of Mao Tse tung and the subsequent purge of the Gang of Four China s new pragmatic leaders have embarked on a crash program of national development known as the Four Modernizations This program is geared to the primary objective of turning China into a major world economic and military power by the year 2000 In this book the outgrowth of a major international conference on China s post Maoist development ten distinguished analysts examine one of the core issues in China s current modernization drive the acquisition and use of modern industrial science and technology The authors address the politics of China s technological modernization the institutional structure of technological research the purchase of foreign technology constraints on technological absorption the growth potential of China s critical energy sector and the modernization of China s military establishment Supplemented with brief commentaries by leading academic government and private sector contributors their chapters provide an in depth look at the process problems and prospects of China s widely heralded technological revolution **Transactions of the Board of Trustees** University of Illinois (System). Board of Trustees,1944 *Announcements for the Year ...* Purdue University,1955

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