

Code No: 55012

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, March - 2021

**CONTROL SYSTEMS**  
(Common to EEE, ECE)

Time: 3 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

- 1.a) Differentiate (i) open loop and closed loop control systems (ii) analog and discrete control systems (iii) SISO and MIMO systems.
- b) Obtain the transfer function  $X(s)/V(s)$  for the electromechanical system shown in Figure 1. [6+9]

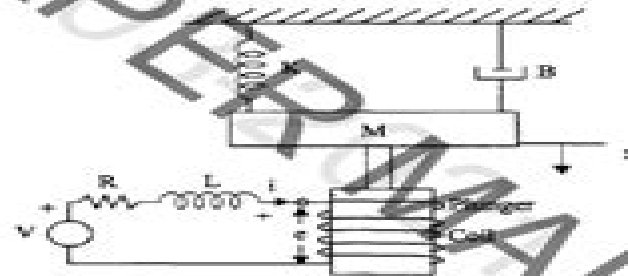


Figure 1

- 2.a) Explain the construction and working of synchro transmitter and receiver.
- b) Obtain the transfer function of the feedback control system shown in figure 2 by using block diagram reduction technique. [6+9]

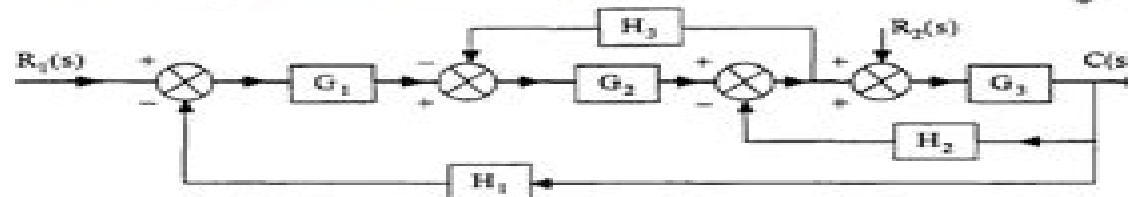


Figure 2

- 3.a) Derive an expression for rise time, peak time and peak overshoot of a second order system excited by a step input.
- b) A unity feedback control system is characterized by the following open loop transfer function:  $G(s) = \frac{(0.4s + 1)}{s(s + 0.6)}$ . Determine its transient response for a unit-step input. Evaluate the maximum overshoot and the corresponding peak time. [6+9]

# Control Systems Nquestion Papers

**S Ben Porath**



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*Mechanical Engineering And Control Systems - Proceedings Of The 2016 International Conference On Mechanical Engineering And Control System (Mecs2016)* Jinjia Wei, 2016-12-29 The 2nd Annual 2016 International Conference on Mechanical Engineering and Control System MECS2016 was successfully held in Wuhan China in 2016 The MECS2016 is one of the leading international conferences for presenting novel and fundamental advances in the fields of Mechanical Engineering and Control System attended by more than 80 participants from China South Korea Taiwan Japan Malaysia and Saudi Arabia The MECS2016 program includes 4 keynote speeches 98 oral and poster presentations covering a wide spectrum of topics from mechanics engineering control engineering and technology to automation and mechatronics However after reviewed and careful consideration only 70 articles are included in this proceedings *Oswaal ISC 10 Sample Question Papers Class 12 Physics, Chemistry, Biology, English Paper-1 & 2 (Set of 5 Books) For Board Exams 2024 (Based On The Latest CISCE/ISC Specimen Paper)* Oswaal Editorial Board, 2023-11-10 Description of the product Fresh Relevant with 2024 ICSE ISC Specimen Paper Fully Solved Score Boosting Insights with 500 Questions 1000 Concepts Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 10 Highly Probable SQPs

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**Principles of Control Systems** SP Eugene Xavier | J Joseph Cyril Babu, 2006 The Text book is arranged so that it can be used for self study by the engineering in practice Included are as many examples of feedback control system in various areas of practice while maintaining a strong basic feedback control text that can be used for study in any of the various branches of engineering

**Linear Control Systems: For PTU** , Multivariable Technical Control Systems: Survey papers Helmut Schwarz (engineer), 1971 ASTME Collected Papers American Society of Tool and Manufacturing Engineers, 1960 Pulp and Paper Magazine of Canada , 1918 Railway and Engineering Review , 1920 **Integration of Fire Control, Flight Control and Propulsion Control Systems** , 1983 Sessional Papers Great Britain. Parliament. House of Commons, 1909

**Chain Store Age** Godfrey Montague Lebar, 1927 Education , 1902 Yearbook - Eastern Commercial Teachers' Association Eastern Commercial Teachers Association (U.S.), 1929 **A Collection of Technical Papers** , 1981 **Railway Signaling and Communications** , 1920 Post Magazine and Insurance Monitor , 1928 **Collected Papers** American Society of Tool and Manufacturing Engineers, 1965 Active Control Systems--review, Evaluation and Projections North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Flight Mechanics Panel. Symposium, 1985 The papers considered comprehensive range of topics including Active Control Technology applications optimisation of systems architecture for both reliability and cost control low design development and test the application of

handling qualities criteria and the operational demonstration of system reliability

**The Electrical Journal** ,1916

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## **Table of Contents Control Systems Nquestion Papers**

1. Understanding the eBook Control Systems Nquestion Papers
  - The Rise of Digital Reading Control Systems Nquestion Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Control Systems Nquestion Papers
  - 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 Control Systems Nquestion Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Control Systems Nquestion Papers
  - Personalized Recommendations
  - Control Systems Nquestion Papers User Reviews and Ratings
  - Control Systems Nquestion Papers and Bestseller Lists
5. Accessing Control Systems Nquestion Papers Free and Paid eBooks
  - Control Systems Nquestion Papers Public Domain eBooks
  - Control Systems Nquestion Papers eBook Subscription Services
  - Control Systems Nquestion Papers Budget-Friendly Options

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