GUJARAT TECHNOLOGICAL UNIVERSITY
B E Sem-VI Examination May 2011

Subject code: 161905
Subject Name: Control Engineering

Date:23/05/2011

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)** State whether the following statements are true or false.   07
   (1) Sprinkler is an example of open loop control system.
   (2) In stochastic control system the response is not predictable and repeatable.
   (3) Servomechanism is an automatic control system.
   (4) Human system is a single variable control system.
   (5) Signal flow graphs are primarily useful for analyzing non-linear control system.
   (6) Root locus is defined as the path of the roots of the transfer function traced out in the S-plane as a system parameter is changed.
   (7) A system is unstable if all the poles of the characteristic equation are towards the left-hand side of the S-plane.

   (b) For mechanical system shown in Fig. 1   07
   - Write the differential equations governing the system.
   - Obtain Laplace transform of these equations.
   - Draw the Force-Voltage analogous electrical network.

Q.2 **(a)** Obtain the mathematical equation and sketch the time response of a second   07
   order control system for a unit step input (for damping factor = $\zeta < 1$).

   (b) From a given signal flow graph (Fig. 2), using Masson's gain formula deduce   07
   overall transmittance.

   OR

   (b) Reduce block diagram as shown in Fig. 3 and obtain overall transfer   07
   function.

Q.3 **(a)** Using Routh-Hurwitz criterion, determine the stability for the system having   07
   characteristic equation

$$s^5 + 2s^4 + 6s^3 + 12s^2 + 6s + 10 = 0$$

   (b) Consider the speed control system shown in Fig. 4, to control the angular   07
   speed, ω of the load. For a given data, draw a block diagram of the system
   and determine the transfer function $w(s)/E_r(s)$.
   Given that: $K_A = 4$ amps/volts ; $K_T = 1.5$ N-m/amp ; $K_g = 50$ volts/amp ;
   $K_t = 0.2$ volts/(rad/sec) ; $K_b = 0.75$ volts / (rad/sec) ;
   $R_a = 1\Omega$; $J = 6$ Kg-m^2

   OR

Q.3 **(a)** Draw Proportional-Derivative (PD) hydraulic controller, explain its working   07
   and determine its transfer function.

   (b) Derive the torque equation of gear-train system (Fig. 5) referred to motor   07
   shaft.

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Engineering Mathematics Iii (For Gtu) Ram Babu,2010-09   An Introduction to Measure Theory Terence Tao,2021-09-03 This is a graduate text introducing the fundamentals of measure theory and integration theory which is the foundation of modern real analysis The text focuses first on the concrete setting of Lebesgue measure and the Lebesgue integral which in turn is motivated by the more classical concepts of Jordan measure and the Riemann integral before moving on to abstract measure and integration theory including the standard convergence theorems Fubini s theorem and the Carath odory extension theorem Classical differentiation theorems such as the Lebesgue and Rademacher differentiation theorems are also covered as are connections with probability theory The material is intended to cover a quarter or semester s worth of material for a first graduate course in real analysis There is an emphasis in the text on tying together the abstract and the concrete sides of the subject using the latter to illustrate and motivate the former The central role of key principles such as Littlewood s three principles as providing guiding intuition to the subject is also emphasized There are a large number of exercises throughout that develop key aspects of the theory and are thus an integral component of the text As a supplementary section a discussion of general problem solving strategies in analysis is also given The last three sections discuss optional topics related to the main matter of the book   Introduction to Information Retrieval Christopher D. Manning,Prabhakar Raghavan,Hinrich Schütze,2008-07-07 Class tested and coherent this textbook teaches classical and web information retrieval including web search and the related areas of text classification and text clustering from basic concepts It gives an up to date treatment of all aspects of the design and implementation of systems for gathering indexing and searching documents methods for evaluating systems and an introduction to the use of machine learning methods on text collections All the important ideas are explained using examples and figures making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science Based on feedback from extensive classroom experience the book has been carefully structured in order to make teaching more natural and effective Slides and additional exercises with solutions for lecturers are also available through the book s supporting website to help course instructors prepare their lectures   **Advanced Engineering Mathematics** Michael D. Greenberg,1998-09

Probability and Statistics for Engineering and the Sciences, Enhanced Review Edition Jay Devore,2008-01-29 This market leading text provides a comprehensive introduction to probability and statistics for engineering students in all specialties This proven accurate book and its excellent examples evidence Jay Devore s reputation as an outstanding author and leader in the academic community Devore emphasizes concepts models methodology and applications as opposed to rigorous mathematical development and derivations Through the use of lively and realistic examples students go beyond simply learning about statistics they actually put the methods to use Important Notice Media content referenced within the product

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Graph Theory with Applications to Engineering and Computer Science Narsingh Deo,1974 Because of its inherent simplicity graph theory has a wide range of applications in engineering and in physical sciences It has of course uses in social sciences in linguistics and in numerous other areas In fact a graph can be used to represent almost any physical situation involving discrete objects and the relationship among them Now with the solutions to engineering and other problems becoming so complex leading to larger graphs it is virtually difficult to analyze without the use of computers This book is recommended in IIT Kharagpur West Bengal for B Tech Computer Science NIT Arunachal Pradesh NIT Nagaland NIT Agartala NIT Silchar Gauhati University Dibrugarh University North Eastern Regional Institute of Management Assam Engineering College West Bengal Univerity of Technology WBUT for B Tech M Tech Computer Science University of Burdwan West Bengal for B Tech Computer Science Jadavpur University West Bengal for M Sc Computer Science Kalyani College of Engineering West Bengal for B Tech Computer Science Key Features This book provides a rigorous yet informal treatment of graph theory with an emphasis on computational aspects of graph theory and graph theoretic algorithms Numerous applications to actual engineering problems are incorpo rated with software design and optimization topics **Qualitative Research Methods for the Social Sciences** Bruce Lawrence Berg,Howard Lune,2014 Qualitative

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