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IC 8451 Control Systems

Important 2mark questions

Unit I

1. Tabulate the parameters of the translational and rotational mechanical systems.
2. Define open loop and closed loop control system.
3. Mention the characteristics of negative feedback.

Unit II

1. Give the expression for Mason's gain formula.
2. Mention the effects of Proportional Integral (PI) controller.
3. Distinguish between type and order of a system.

Unit III

1. The damping ratio and natural frequency of oscillations of a second order system is 0.3 and 3 rad/sec respectively. Calculate resonant frequency and resonant peak.
2. List out the different frequency domain specifications.
3. Differentiate between phase and gain cross over frequency.

Unit IV

1. What is compensation? Why are compensators required in feedback control system?
2. What are the necessary conditions for stability?
3. Define Nyquist stability criterion.

Unit V

1. Enumerate the advantages of state space analysis.
2. Identify the elements involved to construct the state diagram.
3. Write the homogeneous and nonhomogeneous state equation.