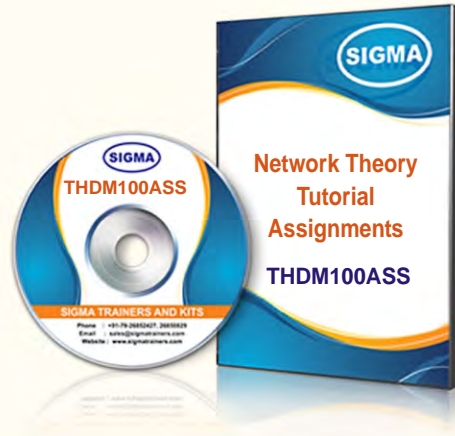




CONTROL SYSTEMS TUTORIAL ASSIGNMENTS

MODEL - CNT100ASS

This Software trainer provides Control System Tutorial Assignments.



SPECIFICATIONS

1. Books for Control System Lab : 10 Nos in pdf Format
2. Mp4 Video Class for Control System Lab : 40 Classes in Mp4 on Pen Drive

EXPERIMENTS

1. Find overall transfer function of the system using block diagram algebra.
2. Find determine the stability of a system using Routh Hurwitz Criterion, marginal value of K and frequency of sustained oscillations.
3. Construct the root locus and comment on the stability.
4. Find the time domain specifications of the given system.
5. Find the steady state error and error coefficients of the type 0, 1 and 2 systems for step, ramp and parabolic inputs.
6. Find frequency domain specifications of the system.
7. Draw Bode Plot, find PM and GM and Comment on the stability. Also, find transfer function of the system from given Bode plot.
8. Find stability of the system using Nyquist Criteria.
9. Write State space model of the system and solution.
10. Find State Transition Matrix for given system and verify the properties of the same.
11. Find the Transfer Function of a Digital System.
12. Find the response of first and second order Digital Systems for Step Input.
13. Study the Digital PID Controller with reference to response time, steady state error

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