

State exam question list. System and Control

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2017.

- 1 Ground definitions of system and control, and grouping of models.
- 2 Differential equation description of dynamical systems.
- 3 Block scheme representation of systems, Thompson feedback theory.
- 4 Examining functions and responses.
- 5 State-space description of dynamic systems.
- 6 Bode and NYQUIST stability criteria.
- 7 Laplace transformation, system description in operator domain, transfer function.
- 8 Open and closed loop systems, stability analysis of closed loop systems.
- 9 PID control
- 10 Evaluation of step input response (transient) function