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Lecture Notes | Systems, Modeling, and Control II ...

The objective is to develop a control model for controlling such systems using a control action in an optimum manner without delay or overshoot and ensuring control stability. To do this, a controller with

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the requisite corrective behavior is required.

This controller monitors the controlled process variable (PV), and compares it with the reference or set point (SP).

Control theory - Wikipedia

Design of control system means finding the mathematical model when we know the input and the output. The following

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mathematical models
are mostly used.

Differential equation
model; Transfer
function model; State
space model; Let us
discuss the first two
models in this chapter.

Differential Equation
Model. Differential
equation model is a
time domain
mathematical model of
control systems. Follow
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More generally, modeling and simulation is a key enabler for systems engineering activities as the system representation in a computer readable (and possibly executable) model enables engineers to reproduce the system (or Systems of System) behavior.

Modeling and simulation -

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E E 581 Digital Control System Design (4) M. BERG Digital control system design by classical methods. Discrete-time systems and the z-transform. Modeling sampled-data systems. Frequency response of discrete time systems and aliasing. Nyquist stability criterion and gain and phase margins.

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