

EE 380

Linear Control Systems

Lecture 25

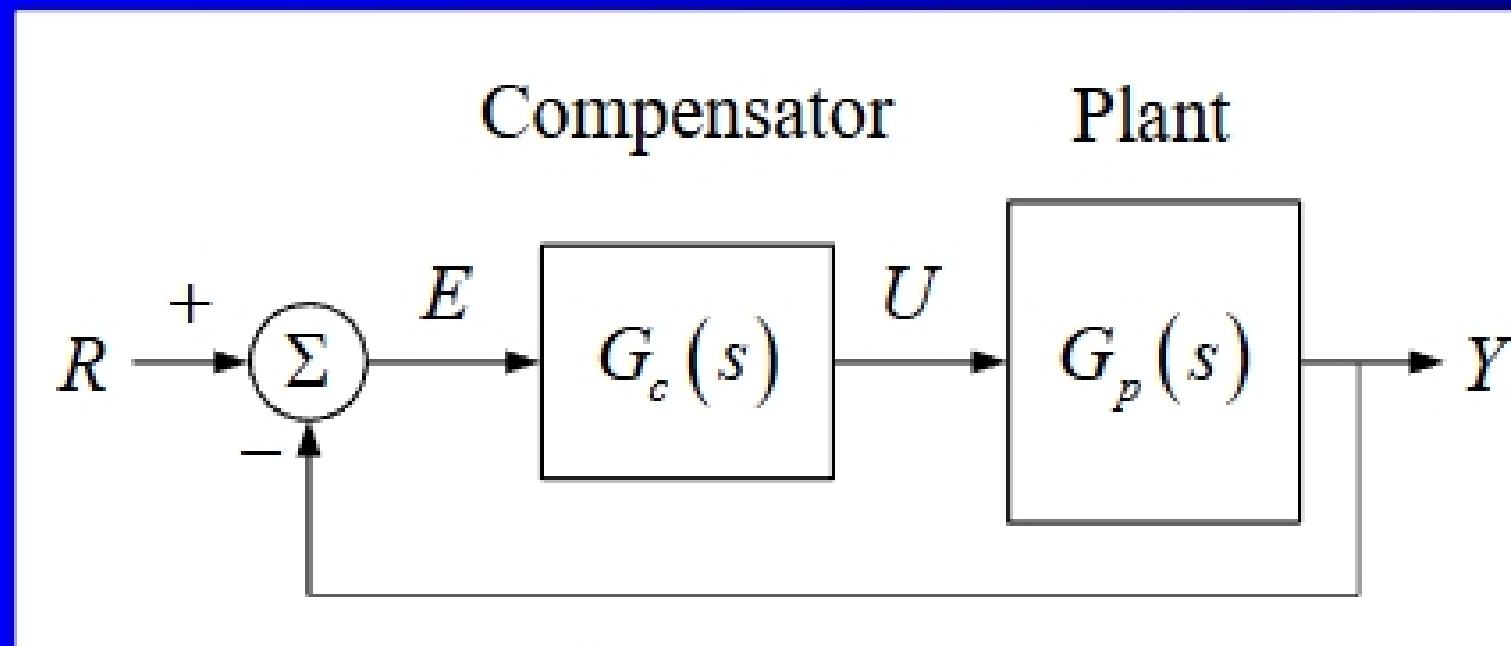
Professor Jeffrey Schiano
Department of Electrical Engineering

Lecture 25 Topics

- Common Cascade Compensators
 - P, PI, PD, PID
 - Phase-lag, Phase-Lead
- Determining Compensator Parameters using Root Locus

P, PI, PD, PID Compensators

- Three term compensator (Minorsky, 1922)



$$u(t) = K_P e(t) + K_I \int_0^t e(\tau) d\tau + K_D \frac{de}{dt}$$