

Attendance: 1%

MT: 20' 8.7.

HW: 20' 8.4

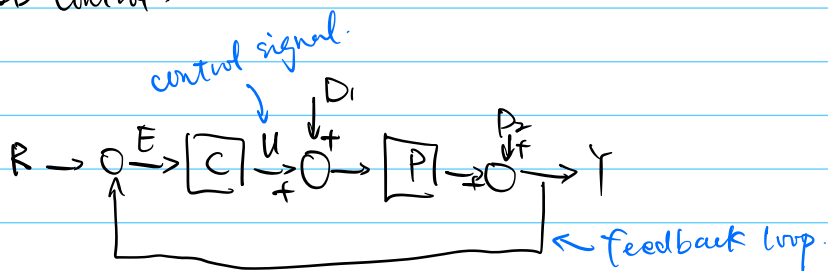
Lab: 30'

Final: 25%

Lab 0 optional. Start Lab 1 from week 3.

Concepts: reference, disturbance, proportional control.

PID Control:



R: reference.

E: error

D_1, D_2 : disturbance.

U: control / input.

Y: output.

C: controller

P: plant.

(negative feedback).

$$Y = D_2 + P(U + D_1)$$

$$U = CE$$

$$E = R - Y$$

$$\Rightarrow Y = \frac{PC}{1+PC} R + \frac{P}{1+PC} D_1 + \frac{1}{1+PC} D_2$$