

Reguleringsteknik 1

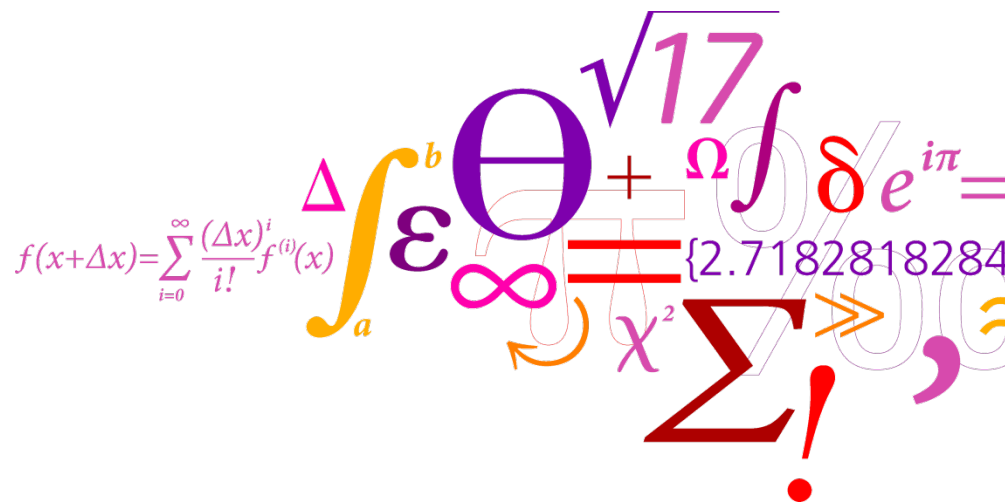
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Kursusuge 6

Plan

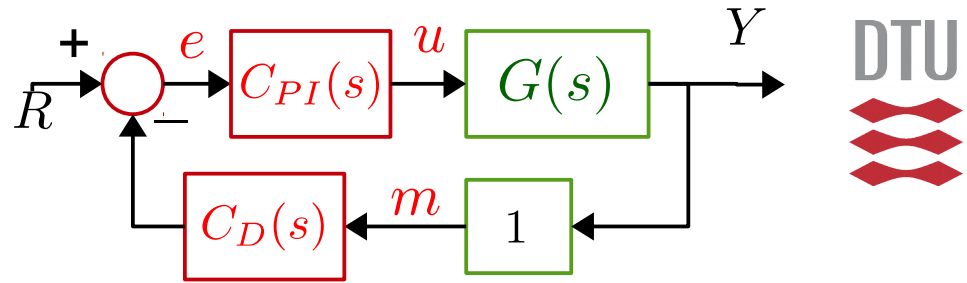
- Stabilitetsmargin
 - Begreber (igen)
 - Nyquist plot
- PID design ud fra frekvensanalyse
 - P- regulator
 - PI regulator
 - P-Lead regulator
- Grupperegningsopgaver
 - PI-Lead
 - Multiple choice

DTU Electrical Engineering
Department of Electrical Engineering



Grupperegning

Lektion 6



1. Design en PI-Lead regulator til et system G_1

$$G_1 = \frac{9000}{(100s + 1)(s^2 + 60s + 900)}$$

a) Design en PI-Lead regulator, når der vælges:

$$N_i = 2, \alpha = 0.1 \text{ og } \gamma_M = 70^\circ$$

2. Multiple choice opgaver på campusnet