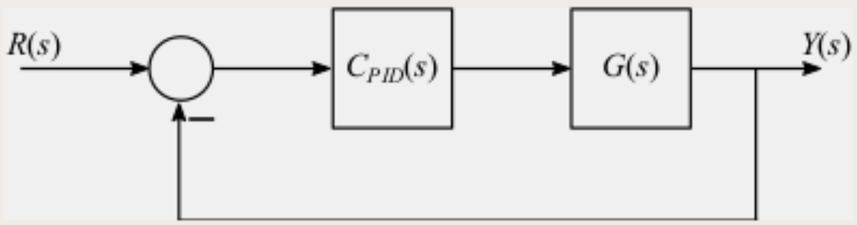
Figure 3

Optimal PID Controller Tuning



Plant:

Load Default Values

10

G(s) = ----------

1*s^3 + 6*s^2 + 11*s^1 + 6

Adopt the parameters of a PID controller and enter its modes

C(s)=Kr(1+1/TIs+TDs)

☑ P Mode 1 ☑ I Mode 1 ☑ D Mode 0

The optimal controller calculation strongly depends on the initial conditions.
Be sure to correctly initialize the chosen controller to determine its optimal parameters.

Weight Functions:

Minimize ITAE Criterion	1
Minimize Maximum Overshoot	10
Minimize Sensitivity Function	20

Optimal PID

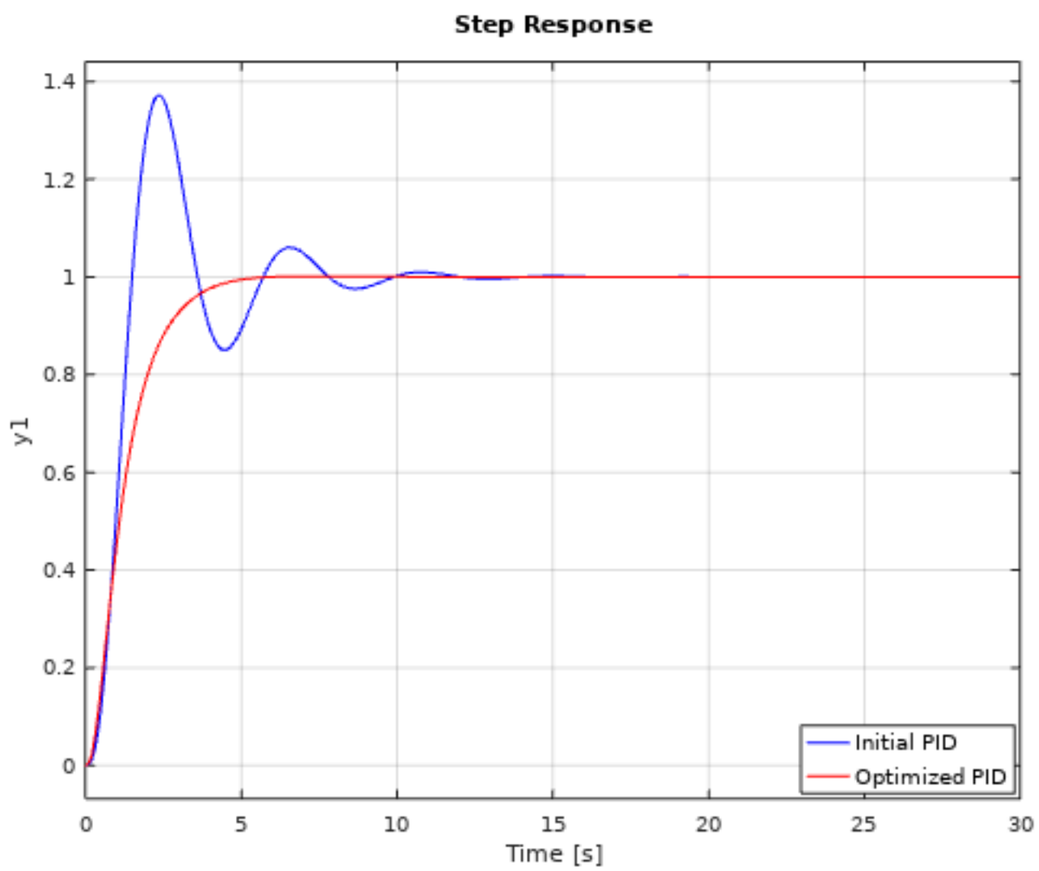
Kr: 0.70062 TI: 1.5731 TD: 0.41548

Help

Figure 4

File Edit Help

Z+ Z- Insert Text Axes Grid Autoscale



(17.641, 1.4208)