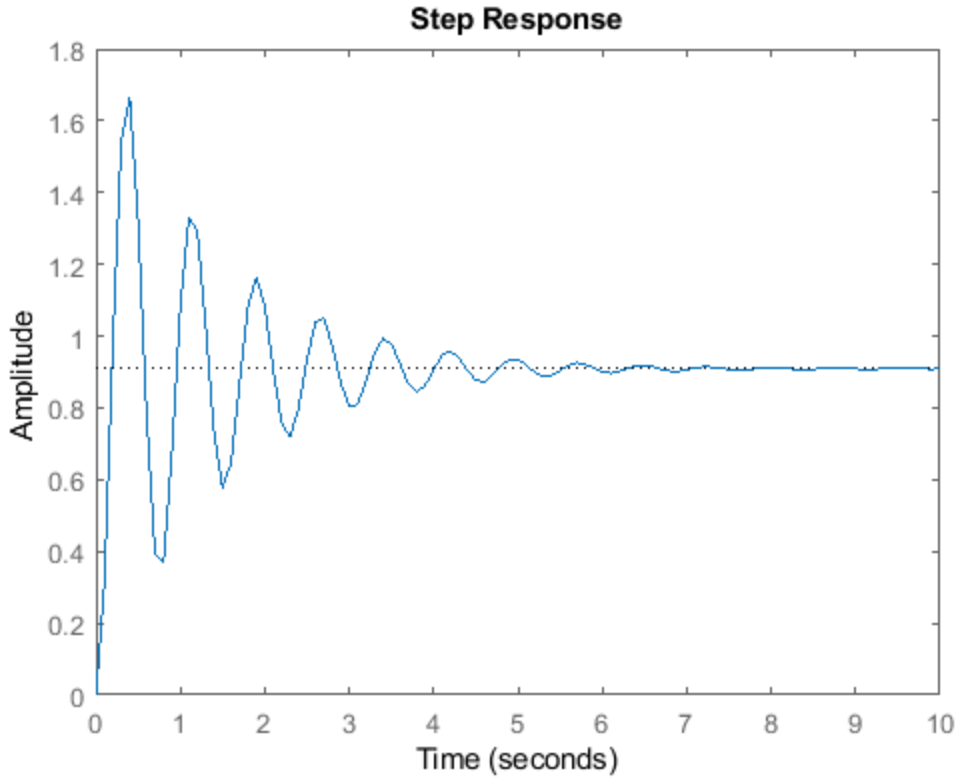
```
Kp=25;
Kd=5.194;
p=6.8;
beta=p;
P=tf(2,[1 0.1 5]);
C=tf([Kd Kp],1);
CP=series(C,P)
Q=tf(beta,[1 p]);
time=0:0.1:10;
H=series(Q,CP);
F_cl=feedback(H,1);
step(F_cl,time)
[z,p,k]=zpkdata(H,'v')


CP =

   10.39 s + 50
  ---------------
  s^2 + 0.1 s + 5

Continuous-time transfer function.


z =

   -4.8132


p =

  -6.8000 + 0.0000i
  -0.0500 + 2.2355i
  -0.0500 - 2.2355i


k =

   70.6384
```



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