

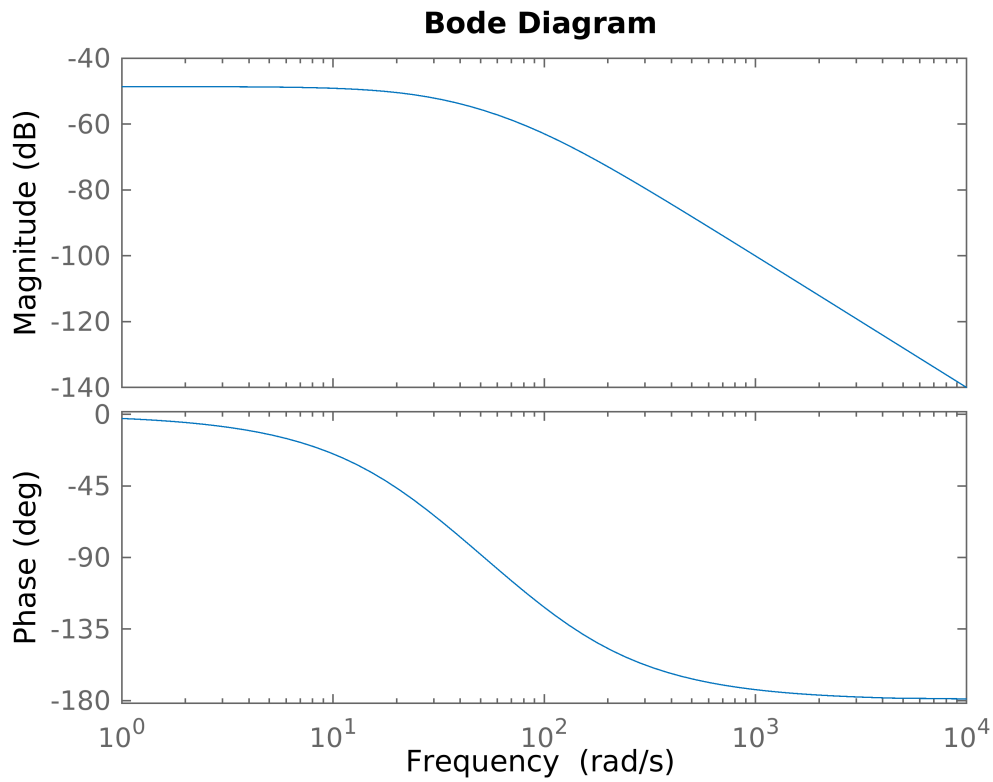
```
G = zpk([], [-90, -30], 10)
```

G =

$$\frac{10}{(s+90)(s+30)}$$

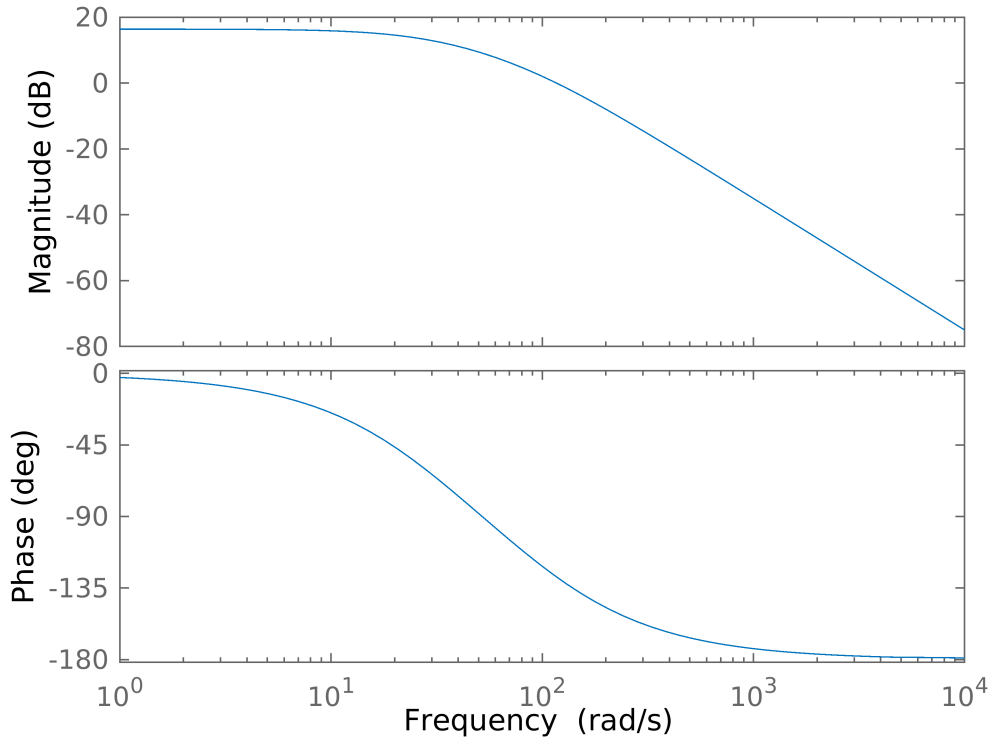
Continuous-time zero/pole/gain model.

```
bode(G)
```



```
bode(1778 * G)
```

Bode Diagram



```
Gc1 = feedback(1778 * G, 1)
```

```
Gc1 =
```

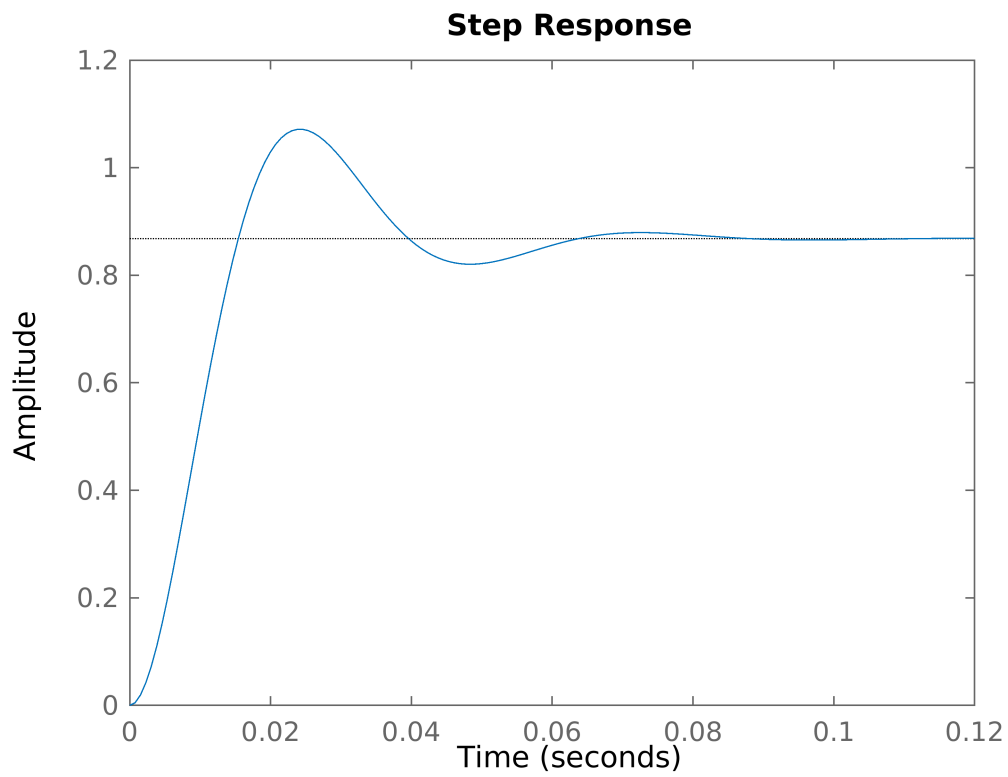
```
      17780  
-----  
(s^2 + 120s + 2.048e04)
```

```
Continuous-time zero/pole/gain model.
```

```
damp(Gc1)
```

Pole	Damping	Frequency (rad/seconds)	Time Constant (seconds)
-6.00e+01 + 1.30e+02i	4.19e-01	1.43e+02	1.67e-02
-6.00e+01 - 1.30e+02i	4.19e-01	1.43e+02	1.67e-02

```
step(Gc1)
```



```
stepinfo(Gc1)
```

```
ans = struct with fields:  
    RiseTime: 0.0105  
    TransientTime: 0.0587  
    SettlingTime: 0.0587  
    SettlingMin: 0.7818  
    SettlingMax: 1.0713  
    Overshoot: 23.4035  
    Undershoot: 0  
    Peak: 1.0713  
    PeakTime: 0.0246
```