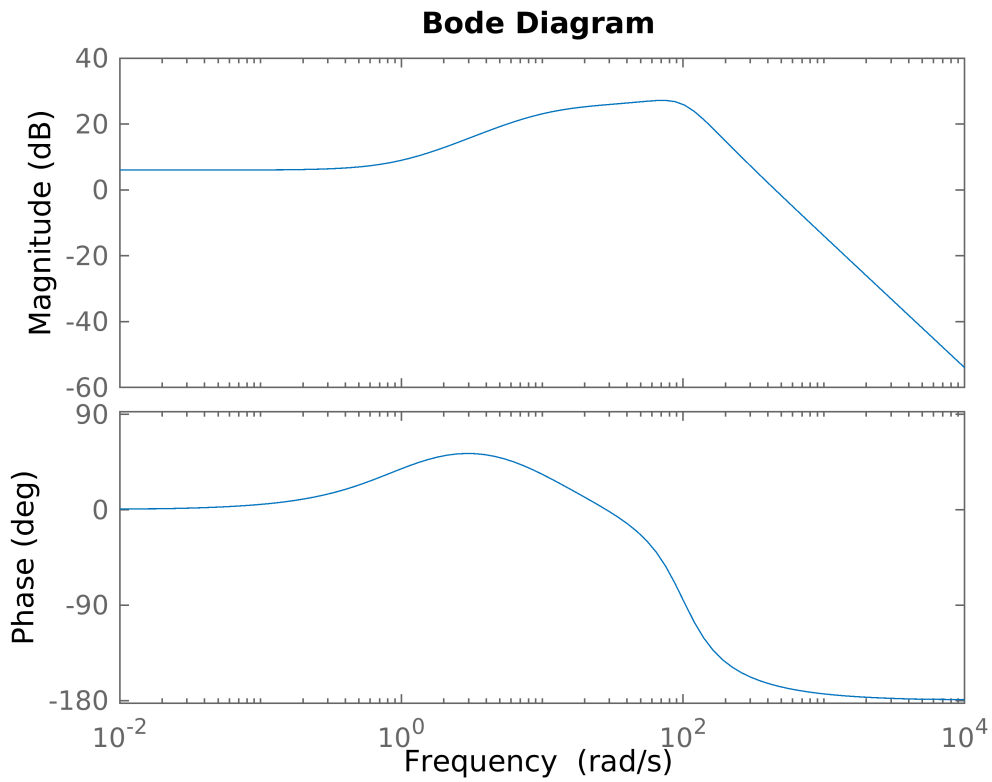
```
G = 200000 * tf([1, 1], [1, 110, 11000, 100000])
```

```
G =

         200000 s + 200000
  --------------------------------
  s^3 + 110 s^2 + 11000 s + 100000

Continuous-time transfer function.
```

```
bode(G)
```




```
w = [1, 10, 1000]
```

```
w = 1×3
     1          10        1000
```

```
Hjw = zeros(size(w));
for i = 1:length(w)
    Hjw(i) = evalfr(G, w(i) * 1i);
end
Hjw
```

```
Hjw = 1×3 complex
   2.1960 + 1.7604i  11.9079 + 7.8881i  -0.1998 - 0.0220i
```

```
Mag = abs(Hjw)
```

```
Mag = 1×3
    2.8145   14.2835    0.2010
```

```
Phase = angle(Hjw)
```

```
Phase = 1×3
    0.6757    0.5851   -3.0319
```

```
20 * log10(Mag)
```

```
ans = 1×3
    8.9881   23.0967  -13.9366
```

```
rad2deg(Phase)
```

```
ans = 1×3
   38.7164   33.5215 -173.7165
```