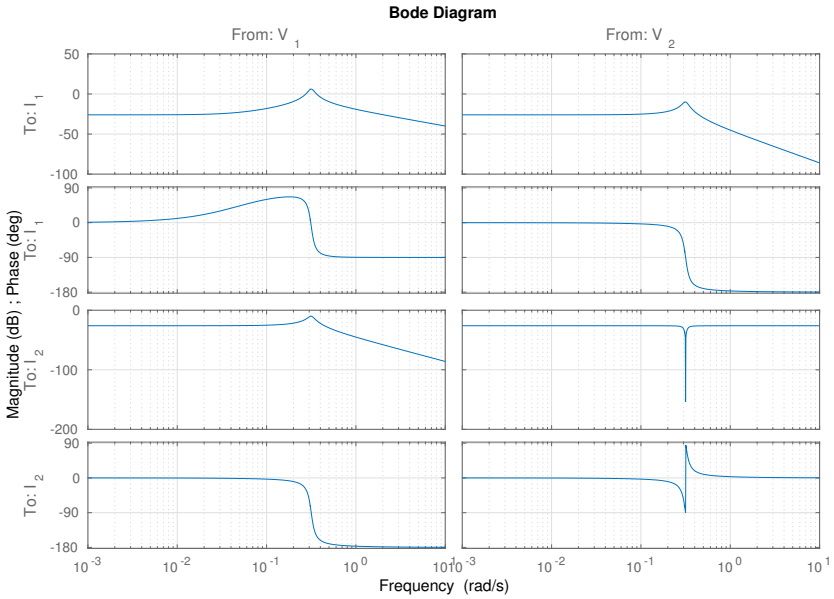
```
R = 20;
L = 10;
C = 1;

den = [R*L*C, L, R];

G11 = tf([R*C, 1],den);
G12 = tf([1],den);
G21 = G12;
G22 = tf([L*C, 0, 1],den);

sys = [G11, G12; G21, G22]

sys.InputName = ['V_1'; 'V_2'];
sys.OutputName = ['I_1'; 'I_2'];

bode(sys)
grid on
```

```
sys =

  From input 1 to output...
           20 s + 1
   1:  -------------------
       200 s^2 + 10 s + 20

                1
   2:  -------------------
       200 s^2 + 10 s + 20

  From input 2 to output...
                1
   1:  -------------------
       200 s^2 + 10 s + 20

           10 s^2 + 1
   2:  -------------------
       200 s^2 + 10 s + 20

Continuous-time transfer function.
```


Bode Diagram
From: V 1
From: V 2
To: I 1
To: I 1
To: I 2
To: I 2
Magnitude (dB) ; Phase (deg)
Frequency (rad/s)