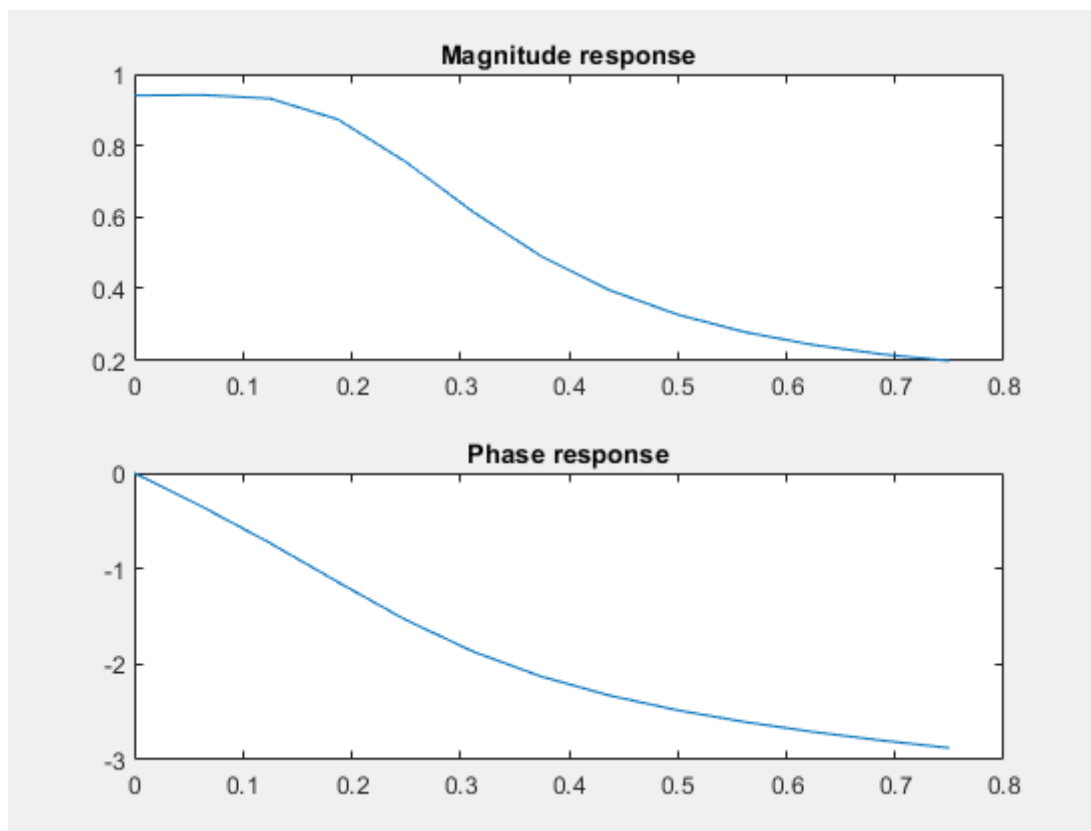


Butter BLT



Butter IIT

```

Pass band attenuation in db is:
    1.9382

Stop band attenuation in db is:
    13.9794

*****
Analog pass band frequency is:
    0.3249

Analog stop band frequency is:
    1.3764

*****
Order of filter is:
    2

Cut-off frequency is:
    0.6219

*****
Transfer function of normalised analog filter is:

Hsn =

      1
-----
s^2 + 1.414 s + 1

Continuous-time transfer function.

*****
Transfer function of De-normalised analog filter is:

Hs =

      0.3867
-----
s^2 + 0.8794 s + 0.3867

Continuous-time transfer function.

*****
Transfer function of digital filter is:

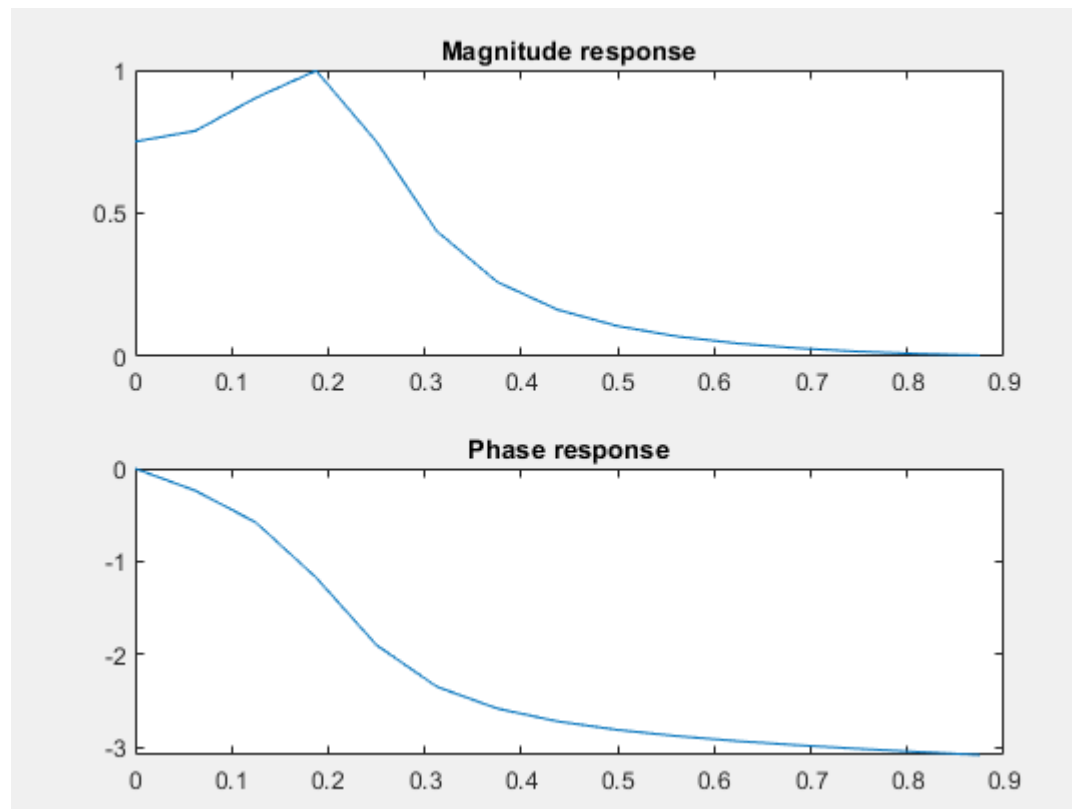
Hz =

      0.1706 z^2 + 0.3413 z + 0.1706
-----
      z^2 - 0.5413 z + 0.2238

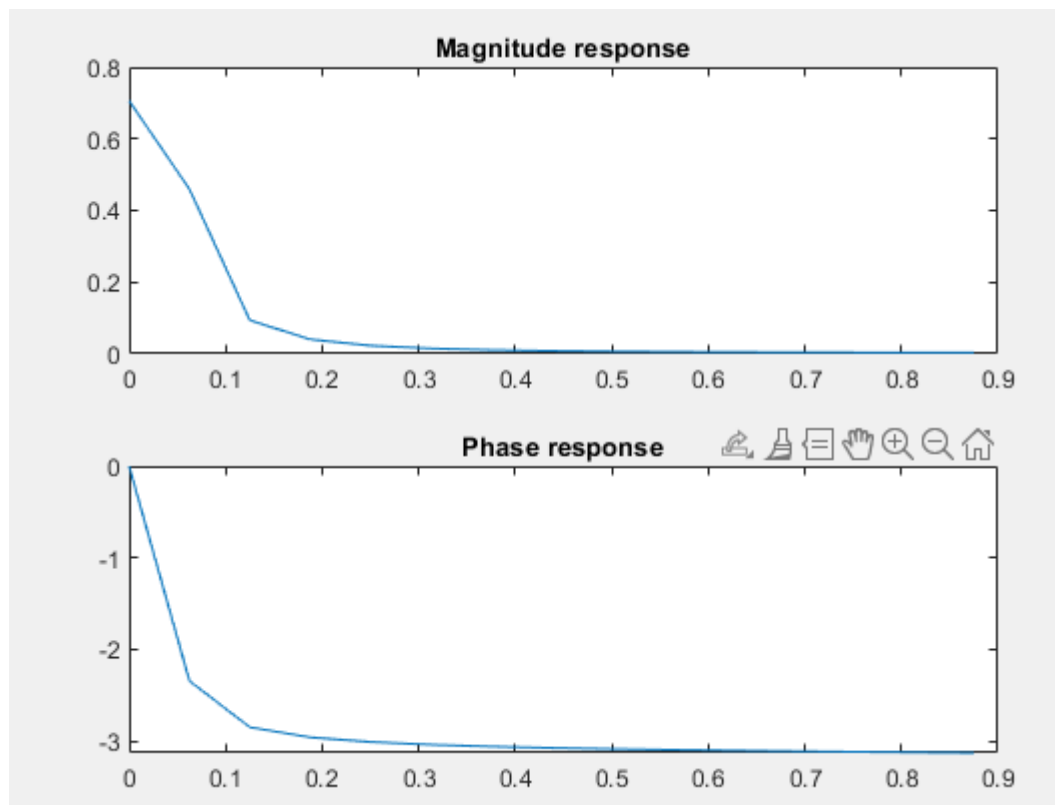
```

Butter BLT

Butter IIT



Cheby BLT



Cheby-IIT

Pass band attenuation in db is:  
2.4988

Stop band attenuation in db is:  
12.7654

^^  
Analog pass band frequency is:  
0.4142

Analog stop band frequency is:  
1.5224

^^  
Order of filter is:  
2

Cut-off frequency is:  
0.4142

^^  
Transfer function of normalised analog filter is:

$$H_{Sn} = \frac{0.5669}{s^2 + 0.7154 s + 0.7559}$$

Continuous-time transfer function.

^^  
Transfer function of De-normalised analog filter is:

$$H_s = \frac{0.09727}{s^2 + 0.2963 s + 0.1297}$$

Continuous-time transfer function.

^^  
Transfer function of digital filter is:

$$H_z = \frac{0.06821 z^2 + 0.1364 z + 0.06821}{z^2 - 1.221 z + 0.5844}$$

Cheby BLT

```

Pass band attenuation in db is:
    3.0090

Stop band attenuation in db is:
    29.9998

*****
Analog pass band frequency is:
    0.1620

Analog stop band frequency is:
    1.6300

*****
Order of filter is:
    2

Cut-off frequency is:
    0.1620

*****
Transfer function of normalised analog filter is:

Hsn =

      0.5003
-----
s^2 + 0.6438 s + 0.7072

Continuous-time transfer function.

*****
Transfer function of De-normalised analog filter is:

Hs =

      0.01313
-----
s^2 + 0.1043 s + 0.01856

Continuous-time transfer function.

*****
Transfer function of digital filter is:

Hz =

      0.01243 z
-----
z^2 - 1.883 z + 0.901

Sample time: 1 seconds
Discrete-time transfer function.

```

Cheby-IIT