

Experiment 31

Butter Worth Low Pass Filter

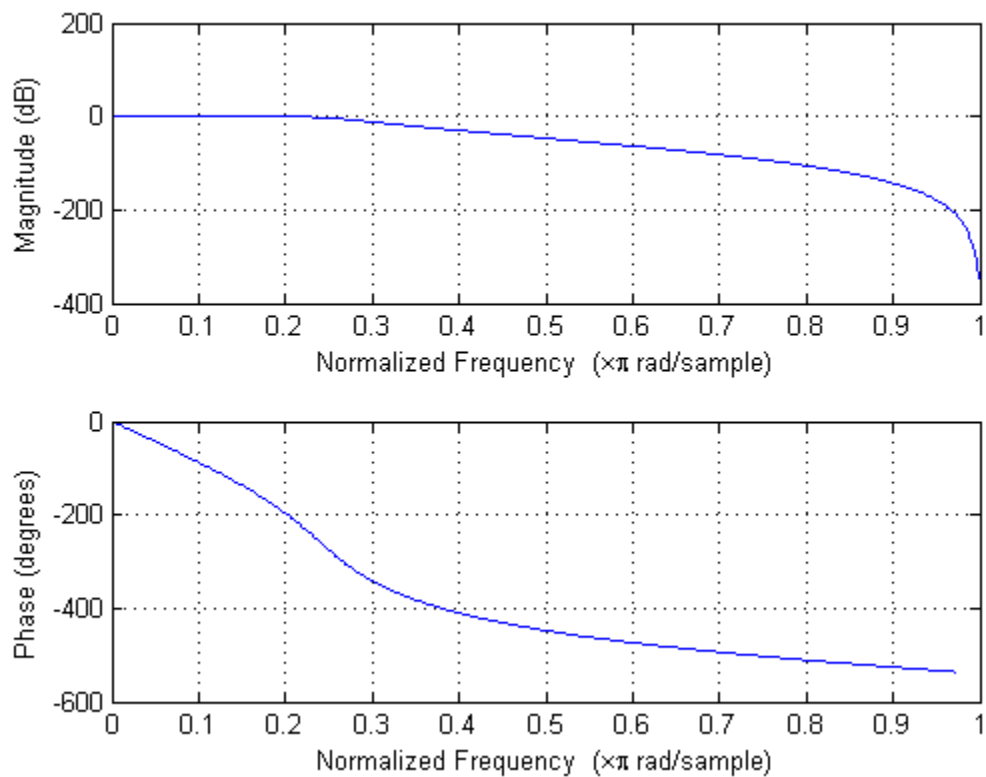
Make Butter Worth low-pass filter on an image by taking required inputs.

```
clc;
clear all;
close all;

rp = 0.4; % passband attenuation
rs = 30; % stop band attenuation
wp = 0.2*pi; % pass band frequency
ws = 0.4*pi; % stop band frequency

[N,wn] = buttord(wp/pi,ws/pi,rp,rs);
[b,a] = butter(N,wn);

freqz(b,a);
```



Conclusion

Magnitude and Phase Plot of the resultant low pass filter are obtained using MATLAB's inbuilt function.