APPENDIX

Function explanation:

Freqz:

Computes the frequency response of the given filter by taking filter coefficients and order as the input.

[x,y]=freqz(b,a,n)

b – Input row vector containing the numerator polynomial coefficients

a – Input row vector containing the denominator polynomial coefficients

n – Input scalar containing the order of the filter.

x – Output frequency response of the filter returned as a row vector.

y - Output angular frequencies of the filter returned as a row vector.

Phasez:

Computes the phase response of the given filter from the coefficients and order.

[x,y]-phasez(b,a,n)

b – Input row vector containing the numerator polynomial coefficients

a – Input row vector containing the denominator polynomial coefficients

n – Input scalar containing the order of the filter.

x – Output phase response of the filter returned as a row vector.

y - Output frequency of the filter returned as a row vector.

Figure:

Used to create a new figure window to plot the response.