

Digital Signal Processing using MATLAB

3rd Edition Schilling

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Chapter 5

S.1 Consider the following first order IIR filter.

$$H(z) = \frac{.4(1 - z^{-1})}{1 + .2z^{-2}}$$

- (a) Compute and sketch the magnitude response $A(f)$.
- (b) What type of filter is this (lowpass, highpass, bandpass, bandstop)?
- (c) Suppose $F_p = .4f_c$. Find the passband ripple δ_p .
- (d) Suppose $F_s = .2f_c$. Find the stopband attenuation δ_s .

Solution

- (a) Using (S.2.1), the frequency response is

$$\begin{aligned} H(f) &= H(z)|_{z=e^{j2\pi fT}} \\ &= \frac{.4[1 - \exp(-j2\pi fT)]}{1 + .2 \exp(-j2\pi fT)} \\ &= \frac{.4[1 - \cos(2\pi fT) + j \sin(2\pi fT)]}{1 + .2 \cos(2\pi fT) - j.2 \sin(2\pi fT)} \end{aligned}$$

Thus the magnitude response is

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Kaluri V. Rangarao, Ranjan K. Mallik



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