Digital Signal Processing using MATLAB 3rd Edition Schilling

Chapter 5

5.1 Consider the following first order IIR filter.

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

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

Solution

(a) Using (5.2.1), the frequency response is

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

Thus the magnitude response is

Chapter 3 Signal Processing Using Matlab

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