

Chapter 4: Problem Solutions

Digital Filters

Problems on Non Ideal Filters

■ Problem 4.1

We want to design a Discrete Time Low Pass Filter for a voice signal. The specifications are:

Passband $F_p = 4 \text{ kHz}$, with 0.8 dB ripple;

Stopband $F_s = 4.5 \text{ kHz}$, with 50dB attenuation;

Sampling Frequency $F_s = 22 \text{ kHz}$.

Determine a) the discrete time Passband and Stopband frequencies, b) the maximum and minimum values of $|H(\omega)|$ in the Passband and the Stopband, where $H(\omega)$ is the filter frequency response.

Solution

a) Recall the mapping from analog to digital frequency $\omega = 2\pi F / F_s$, with F_s the sampling frequency. Then the passband and stopband frequencies become $\omega_p = 2\pi 4 / 22 \text{ rad} = 0.36\pi \text{ rad}$, $\omega_s = 2\pi 4.5 / 22 \text{ rad} = 0.41\pi \text{ rad}$;

b) A 0.8 dB ripple means that the frequency response in the passband is within the interval $1 \pm \delta$ where δ is such that $20 \log_{10} (1 + \delta) = 0.8$. This yields $\delta = 10^{0.04} - 1 = 0.096$. Therefore the frequency response within the passband is within the interval $0.9035 \leq |H(\omega)| < 1.096$. Similarly in the stopband the maximum value is $|H(\omega)| < 10^{-50/20} = 0.0031$.

■ Problem 4.2

A Digital Filter has frequency response $H(\omega)$ such that

$$\begin{aligned} 0.95 \leq |H(\omega)| \leq 1.05 & \quad \text{for } 0 \leq \omega \leq 0.3\pi \\ 0 \leq |H(\omega)| \leq 0.005 & \quad \text{for } 0.4\pi \leq \omega \leq \pi \end{aligned}$$

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