

## 9. Digital Filters

In many applications of signal processing we want to change the relative amplitudes and frequency contents of a signal. This process is generally referred to as filtering. Since the Fourier transform of the output is product of input Fourier transform and frequency response of the systems, we have to use appropriate frequency response.

### 1. Ideal frequency selective filters:

An ideal frequency selective filter passes complex exponential signal for a given set of frequencies and completely rejects the others. Figure (9.1) shows frequency response for ideal low pass filter (LPP), ideal high pass filter (HPF), ideal bandpass filter (BPF) and ideal bandstop filter (BSF).

FIGURE 9.1

The ideal filters have a frequency response that is real and non-negative. In other words, has a zero phase characteristics. A linear phase characteristics introduces a time shift and this causes no distortion in the shape of the signal in the passband.

Since the Fourier transfer of a stable impulse response is continuous function of  $\omega$ , can not get a stable ideal filter.

### 2. Filter specification:

Since the frequency response of the realizable filter should be a continuous function, the magnitude response of a lowpass filter is specified with some acceptable tolerance. Moreover, a transition band is specified between the passband and stop band to permit the magnitude to drop off smoothly. Figure (9.2) illustrates this

FIGURE 9.2

In the passband magnitude the frequency response is within  $\pm\delta_p$  of unity

$$(1 - \delta_p) \leq |H(e^{j\omega})| \leq (1 + \delta_p), \quad |\omega| \leq \omega_p$$

In the stopband

$$|H(e^{j\omega})| \leq \delta_s, \quad |\omega| > \omega_s \leq \pi$$

The frequencies  $\omega_p$  and  $\omega_s$  are respectively, called the passband edge frequency and the stopband edge frequency. The limits on tolerances  $\delta_p$  and  $\delta_s$  are called the peak ripple value. Often the specifications of digital filter are given in terms of the loss function  $G(\omega) = -20 \log_{10} |H(e^{j\omega})|$ , in dB. The loss specification of digital filter are

$$\alpha_p = -20 \log_{10} (1 - \delta_p) \text{ dB}$$

$$\alpha_s = -20 \log_{10} \delta_s \text{ dB}$$

Sometimes the maximum value in the passband is assumed to be unity and the maximum passband deviation, denoted as  $\frac{1}{\sqrt{1+\delta_p^2}}$  is given the minimum value

# 9 Digital Filters Nptel

**LL Leslie**



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