

$$|H(0.99 \times 10^5)| = \frac{10^2}{\sqrt{(0.99 \times 10^5)^2 + 10^4}} = 10.1 \times 10^{-3}, \quad \text{and} \quad |H(1.01 \times 10^5)| = \frac{10^2}{\sqrt{(1.01 \times 10^5)^2 + 10^4}} = 9.901 \times 10^{-3}$$

The gain variation over the band is only 1.99%. Similarly, we find the time delays at the band edges as

$$t_d(0.99 \times 10^5) = \frac{10^2}{(0.99 \times 10^5)^2 + 10^4} = \frac{1}{100.1 \times 10^3}, \quad \text{and} \quad t_d(1.01 \times 10^5) = \frac{10^2}{(1.01 \times 10^5)^2 + 10^4} = \frac{1}{101.1 \times 10^3}$$

The time delay variation over the band is 4%. Hence, the transmission may be considered distortionless. The signal is transmitted with a gain and time delay at the center of the band, that is at $\omega = 10^5$. We also find $|H(10^5)| \approx 0.01$ and $t_d(10^5) \approx 10^{-7}$. Hence, if $g(t)$ is the input, the corresponding output is

$$y(t) = 0.01 g(t - 10^{-7})$$

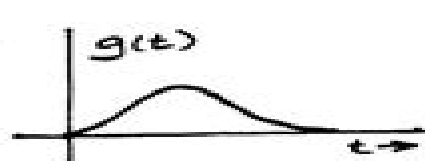


Fig. S3.6-1

3.6-1

$$\begin{aligned} Y(\omega) &= G(\omega) \text{rect} \left(\frac{\omega}{4\pi B} \right) e^{-j\omega(t_0 + k\pi\omega T)} \\ &\approx G(\omega) \text{rect} \left(\frac{\omega}{4\pi B} \right) [1 - jk\sin \omega T] e^{-j\omega t_0} \end{aligned}$$

This follows from the fact that $e^x \approx 1 + x$ when $x \ll 1$. Moreover, $G(\omega) \text{rect} \left(\frac{\omega}{4\pi B} \right) = G(\omega)$ because $G(\omega)$ is bandlimited to B Hz. Hence

$$Y(\omega) = G(\omega) e^{-j\omega t_0} - jkG(\omega) \sin \omega T e^{-j\omega t_0}$$

Moreover, we can show that (see Prob. 3.3-5)

$$\frac{1}{2j} [g(t+T) - g(t-T)] \longleftrightarrow G(\omega) \sin \omega T$$

Hence

$$y(t) = g(t - t_0) + \frac{k}{2} [g(t - t_0 - T) - g(t - t_0 + T)]$$

Figure S3.6-1 shows $g(t)$ and $y(t)$.

3.6-2 Recall that the transfer function of an ideal time delay of T seconds is $e^{-j\omega T}$. Hence, the transfer function of the equalizer in Fig. P3.6-2 is

$$H_{eq}(\omega) = a_0 + a_1 e^{-j\omega \Delta t} + a_2 e^{-j2\omega \Delta t} + \dots + a_n e^{-jn\omega \Delta t}$$

Ideally, we require the equalizer to have

$$\begin{aligned} [H_{eq}(\omega)]_{desired} &= \frac{1}{1 + \alpha e^{-j\omega \Delta t}} \\ &= 1 - \alpha e^{-j\omega \Delta t} + \alpha^2 e^{-j2\omega \Delta t} - \alpha^3 e^{-j3\omega \Delta t} + \dots + \dots \end{aligned}$$

The equalizer in Fig. P3.6-2 approximates this expression if we select $a_0 = 1$, $a_1 = -\alpha$, $a_2 = \alpha^2$, ..., $a_n = (-1)^n \alpha^n$.

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