

$$|H(0.99 \times 10^6)| = \frac{10^6}{\sqrt{0.99 \times 10^6 + 10^6}} = 10.1 \times 10^{-3}, \text{ and } |H(1.01 \times 10^6)| = \frac{10^6}{\sqrt{1.01 \times 10^6 + 10^6}} = 9.901 \times 10^{-3}$$

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

$$r_s(0.99 \times 10^6) = \frac{10^6}{(0.99 \times 10^6)^2 + 10^6} = \frac{10^6}{1.0001 \times 10^{12} + 10^6} \text{ and } r_s(1.01 \times 10^6) = \frac{10^6}{(1.01 \times 10^6)^2 + 10^6} = \frac{10^6}{1.0201 \times 10^{12} + 10^6}$$

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 $\omega = 10^6$. We also find $|H(10^6)| \approx 0.01$ and $r_s(10^6) \approx 1 \times 10^{-7}$. Hence, if $s(t)$ is the input, the corresponding output is

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

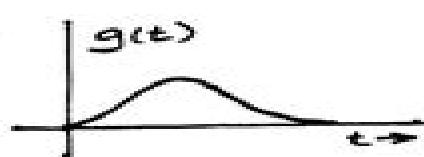


Fig. S3.6-1

3.6-1

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

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

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

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

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

Hence

$$s(t) = s(t - t_0) + \frac{1}{2} [s(t - t_0 - T) - s(t - t_0 + T)]$$

Figure S3.6-1 shows $s(t)$ 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

$$H_{\text{eq}}(\omega) = \alpha_0 + \alpha_1 e^{-j\omega \Delta t} + \alpha_2 e^{-j2\omega \Delta t} + \dots + \alpha_n e^{-j(n-1)\omega \Delta t}$$

Ideally, we require the equalizer to have

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

The equalizer in Fig. P3.6-2 approximates this expression if we select $\alpha_0 = 1$, $\alpha_1 = -\alpha$, $\alpha_2 = \alpha^2$, \dots , $\alpha_n = (-1)^n \alpha^n$.

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B. P. Lathi

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