

of the output of the first looppass filter are all shown in the figure below. Clearly this system does not accomplish the filtering task.

- 7.23. (a) The Nyquist rate for the given signal is $2 \times 1000\pi = 2000\pi$. Therefore, in order to be able to recover $x(t)$ from $x_p(t)$, the sampling period must at most be $T_{\max} = \frac{1}{1000} = 1 \times 10^{-3}$ sec. Since the sampling period used is $T = 10^{-2} > T_{\max}$, $x(t)$ cannot be recovered from $x_p(t)$.
- (b) The Nyquist rate for the given signal is $2 \times 1500\pi = 3000\pi$. Therefore, in order to be able to recover $x(t)$ from $x_p(t)$, the sampling period must at most be $T_{\max} = \frac{1}{1500} = 0.66 \times 10^{-3}$ sec. Since the sampling period used is $T = 10^{-2} > T_{\max}$, $x(t)$ cannot be recovered from $x_p(t)$.
- (c) Here, $\text{Im}\{X(j\omega)\}$ is not specified. Therefore, the Nyquist rate for the signal $x(t)$ is indeterminate. This implies that one cannot guarantee that $x(t)$ would be recoverable from $x_p(t)$.
- (d) Since $x(t)$ is real, we may conclude that $X(j\omega) = 0$ for $|\omega| > 3000$. Therefore, the answer to this part is obtained as that of part (a).
- (e) Since $x(t)$ is real, $X(j\omega) = 0$ for $|\omega| > 1500\pi$. Therefore, the answer to this part is obtained as that of part (a).
- (f) If $X(j\omega) = 0$ for $|\omega| > \omega_1$, then $X(j\omega) + X(j\omega) = 0$ for $|\omega| > \omega_1$. Therefore, in this part, $X(j\omega) = 0$ for $|\omega| > 1500\pi$. The Nyquist rate for this signal is $2 \times 1500\pi = 3000\pi$. Therefore, in order to be able to recover $x(t)$ from $x_p(t)$, the sampling period must at most be $T_{\max} = \frac{1}{1500} = 1.33 \times 10^{-3}$ sec. Since the sampling period used is $T = 10^{-2} > T_{\max}$, $x(t)$ cannot be recovered from $x_p(t)$.
- (g) If $|X(j\omega)| = 0$ for $|\omega| > 1000\pi$, then $X(j\omega) = 0$ for $|\omega| > 1000\pi$. Therefore, the answer to this part is identical to the answer of part (a).

- 7.24. Using the properties of the Fourier transform, we obtain

$$Y(j\omega) = X_1(j\omega)X_2(j\omega).$$

Therefore, $Y(j\omega) = 0$ for $|\omega| > 1000\pi$. This implies that the Nyquist rate for $y(t)$ is $2 \times 1000\pi = 2000\pi$. Therefore, the sampling period T must at most be $\frac{1}{2000}$ sec. Therefore we have to use $T < 5 \times 10^{-4}$ sec in order to be able to recover $y(t)$ from $y_p(t)$.

- 7.25. (a) We may express $x(t)$ as

$$x(t) = x_1(t) + x_2(t) + x_3(t),$$

where $x_1(t) = \sum_{k=-\infty}^{\infty} \delta(t - kT)$. Now,

$$F_1(j\omega) = \frac{1}{T} \sum_{k=-\infty}^{\infty} \delta(\omega - k/T)$$

Therefore,

$$F(j\omega) = F_1(j\omega) = e^{-j\omega T/2} F_2(j\omega).$$

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Figure 7.24

Clearly, $F(j\omega)$ consists of impulses spaced every $1/T$.

- (a) If $\Delta = T/3$, then

$$F(j\omega) = \sum_{k=-\infty}^{\infty} \frac{4 \sin(2\pi k \Delta/3)}{3} \delta(\omega - k/T) = 4\Delta \pi/T - 2\pi \delta(\omega).$$

Now, since $x(t) = x_p(t)$,

$$W(j\omega) = \frac{1}{T} \sum_{k=-\infty}^{\infty} \frac{4 \sin(2\pi k \Delta/3)}{3} X(j\omega - k/T) = 4\Delta \pi/T - 2\pi X(j\omega).$$

Therefore, $W(j\omega)$ consists of replicas of $X(j\omega)$ which are spaced $1/T$ apart. In order to avoid aliasing, one should be sure that Δ/T . Therefore, $T_{\max} = 3/\omega_m$.

- (b) If $\Delta = T/2$, then

$$F(j\omega) = \sum_{k=-\infty}^{\infty} \frac{4 \sin(2\pi k \Delta/2)}{2} \delta(\omega - k/T) = 4\Delta \pi/T - 2\pi \delta(\omega).$$

We note that $F(j\omega) = 0$ for $k = 0, \pm 2, \pm 4, \dots$. This is as obtained in Figure 7.24.

Therefore, the replicas of $X(j\omega)$ in $W(j\omega)$ are now spaced $2/T$ apart. In order to avoid aliasing, one should be sure that $2\pi/T$. Therefore, $T_{\max} = 3\pi/\omega_m$.

- 7.26. Here, $x_p(t)$ can be written as

$$x_p(t) = \sum_{k=-\infty}^{\infty} x(t) \frac{\sin(\pi(\Delta - t)/\Delta)}{\pi(\Delta - t)/\Delta}.$$

Now that when $n \neq k$,

$$\frac{\sin(\pi(\Delta - t)/\Delta)}{\pi(\Delta - t)/\Delta} = 0$$

and when $n = k$,

$$\frac{\sin(\pi(\Delta - t)/\Delta)}{\pi(\Delta - t)/\Delta} = 1.$$

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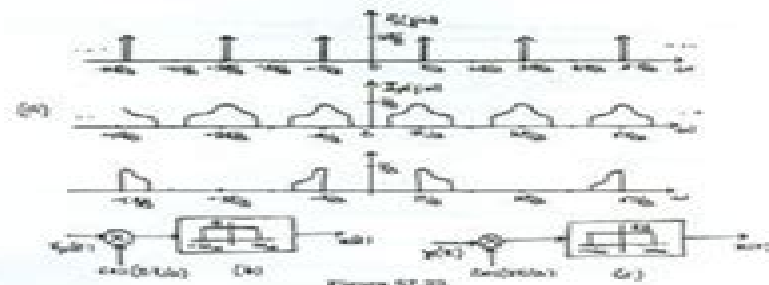


Figure 7.25

is as shown in Figure 7.25.

Now,

$$X_p(j\omega) = \frac{1}{T} [X(j\omega) + F(j\omega)].$$

Therefore, $X_p(j\omega)$ is as obtained below for $\Delta = \pi/(2\omega_m)$. The corresponding $F(j\omega)$ is also obtained in Figure 7.25.

- (b) The system which can be used to recover $x(t)$ from $x_p(t)$ is as shown in Figure 7.25. (c) The system which can be used to recover $x(t)$ from $x_p(t)$ is as shown in Figure 7.25. (d) We see from the figure obtained in part (a) that aliasing is avoided when $\omega_m \leq \pi/\Delta$. Therefore, $\Delta_{\max} = \pi/\omega_m$.

- 7.24. We may express $x(t)$ as $x(t) = X(t) + 1$, where $X(t)$ is as shown in Figure 7.24.

We may easily show that

$$F_1(j\omega) = \sum_{k=-\infty}^{\infty} \frac{4 \sin(2\pi k \Delta/3)}{3} \delta(\omega - k/T) = 4\Delta \pi/T.$$

From this, we obtain

$$F(j\omega) = F_1(j\omega) - 2\pi \delta(\omega) = \sum_{k=-\infty}^{\infty} \frac{4 \sin(2\pi k \Delta/3)}{3} \delta(\omega - k/T) = 4\Delta \pi/T - 2\pi \delta(\omega).$$

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Therefore,

$$x_p(t) = x(t)F(t).$$

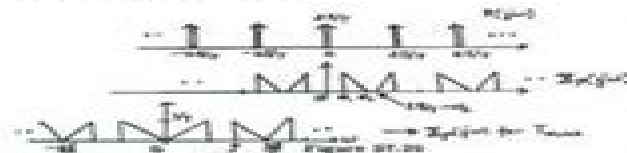
- 7.24. We note that

$$F(j\omega) = \frac{2\pi}{T} X(\omega - 4\Delta \pi/T).$$

Also, since $x_p(t) = x(t)F(t)$,

$$X_p(j\omega) = \frac{1}{T} [X(j\omega) + F(j\omega)] = \frac{1}{T} [X(j\omega) - 4\Delta \pi/T].$$

This is obtained in Figure 7.26.



Now that as T increases, $\frac{1}{T} \rightarrow \omega_1$ approaches zero. Also, we note that there is aliasing when

$$2\omega_1 = \omega_2 \text{ or } \frac{1}{T} = \omega_2 \text{ or } \omega_1$$

If $2\omega_1 = \omega_2 > 0$ (as given) then it is easy to see that aliasing does not occur when

$$0 \leq \frac{1}{T} \leq 2\omega_1 \leq \omega_2 = \omega_1$$

For maximum T , we must choose the minimum allowable value for $\frac{1}{T} = \omega_1$ (which is zero). This implies that $T_{\max} = 2\pi/\omega_m$. We plot $X_p(j\omega)$ for this case in Figure 7.26. Therefore, $\Delta = T$, $\omega_1 = 2\pi/T$, and $\omega_2 = \omega_1 = \omega_1$.

- 7.27. (a) Let $X_1(j\omega)$ denote the Fourier transform of the signal $x_1(t)$ obtained by multiplying $x(t)$ with $e^{-j\omega t}$. Let $X_2(j\omega)$ be the Fourier transform of the signal $x_2(t)$ obtained as the output of the looppass filter. Then, $X_1(j\omega)$, $X_2(j\omega)$, and $X_p(j\omega)$ are as shown in Figure 7.27.

- (b) The Nyquist rate for the signal $x_p(t)$ is $2 \times (\omega_2 - \omega_1)/2 = \omega_2 - \omega_1$. Therefore, the sampling period T must be at most $2\pi/(\omega_2 - \omega_1)$ in order to avoid aliasing.

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Robert A. Gabel, Richard A. Roberts



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web mar 1 2014 this article describes the basics of pressure measurement and provides guidance on instrument selection pressure measurement applications range from simple setpoint monitoring to ensure

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web pressure measuring instruments by wika by pressure measuring instrument we mean an instrument for the measurement of pressure in gases and liquids here we differentiate between mechanical pressure gauges electronic and mechatronic pressure measuring instruments

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web industrial equipment for pressure measurement in the industry among several equipment used for pressure measurement two of them can be enhanced the manometer and the pressure transmitter

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web orcinus is a genus of delphinidae the family of carnivorous marine mammals known as dolphins it includes the largest delphinid species orcinus orca known as the orca or killer whale two extinct species are recognised orcinus paleorca and o citoniensis describing fossilised remains of the genus 2

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web the orca orcinus orca also called killer whale is a toothed whale belonging to the oceanic dolphin family of which it is the largest member it is the only extant species in the genus orcinus and is recognizable by its black and white patterned body

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web oct 25 2023 killer whale largest member of the dolphin family delphinidae the killer whale is easy to identify by its size and its striking coloration jet black on top and pure white below with a white patch behind each eye another extending up each flank and a variable saddle patch just behind the dorsal fin

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fatal attacks on humans since the 1970s 2

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