

- 4.34. (a) Since there is no aliasing involved in this process, we may choose T to be any value. Choose $T = 1$ for simplicity. $X_c(j\Omega) = 0, |\Omega| \geq \pi/T$. Since $Y_c(j\Omega) = H_c(j\Omega)X_c(j\Omega)$, $Y_c(j\Omega) = 0, |\Omega| \geq \pi/T$. Therefore, there will be no aliasing problems in going from $y_c(t)$ to $y[n]$. Recall the relationship $\omega = \Omega T$. We can simply use this in our system conversion:

$$\begin{aligned} H(e^{j\omega}) &= e^{-j\omega/2} \\ H(j\Omega) &= e^{-j\Omega T/2} \\ &= e^{-j\Omega/2}, \quad T = 1 \end{aligned}$$

Note that the choice of T and therefore $H(j\Omega)$ is not unique.

(b)

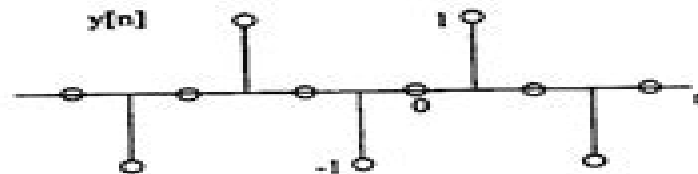
$$\begin{aligned} \cos\left(\frac{5\pi}{2}n - \frac{\pi}{4}\right) &= \frac{1}{2} \left[e^{j(5\pi/2)n - \pi/4} + e^{-j(5\pi/2)n - \pi/4} \right] \\ &= \frac{1}{2} e^{-j(\pi/4)} e^{j(5\pi/2)n} + \frac{1}{2} e^{j(\pi/4)} e^{-j(5\pi/2)n} \end{aligned}$$

Since $H(e^{j\omega})$ is an LTI system, we can find the response to each of the two eigenfunctions separately.

$$y[n] = \frac{1}{2} e^{-j(\pi/4)} H(e^{j(5\pi/2)}) e^{j(5\pi/2)n} + \frac{1}{2} e^{j(\pi/4)} H(e^{-j(5\pi/2)}) e^{-j(5\pi/2)n}$$

Since $H(e^{j\omega})$ is defined for $0 \leq |\omega| \leq \pi$ we must evaluate the frequency at the baseband, i.e., $5\pi/2 \Rightarrow 5\pi/2 - 2\pi = \pi/2$. Therefore,

$$\begin{aligned} y[n] &= \frac{1}{2} e^{-j(\pi/4)} H(e^{j(5\pi/2)}) e^{j(5\pi/2)n} + \frac{1}{2} e^{j(\pi/4)} H(e^{-j(5\pi/2)}) e^{-j(5\pi/2)n} \\ &= \frac{1}{2} \left(e^{j[(5\pi/2)n - (\pi/2)]} + e^{-j[(5\pi/2)n - (\pi/2)]} \right) \\ &= \cos\left(\frac{5\pi}{2}n - \frac{\pi}{2}\right) \end{aligned}$$



- 4.35. The frequency response $H(e^{j\omega}) = H_c(j\Omega/T)$. Finding that

$$H_c(j\Omega) = \frac{1}{(j\Omega)^2 + 4(j\Omega) + 3}$$

$$\begin{aligned} H(e^{j\omega}) &= \frac{1}{(10j\omega)^2 + 4(10j\omega) + 3} \\ &= \frac{1}{-100\omega^2 + 3 + 40j\omega} \end{aligned}$$

- 4.36. (a) Since $\Omega T = \omega$, $(2\pi \cdot 100)T = \frac{\pi}{2} \Rightarrow T = \frac{1}{400}$

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