

Chapter 4 Answers

- 4.1. (a) Let $x(t) = e^{-t} \cos(2t)u(t) = 0$. Then the Fourier transform $X(j\omega)$ of $x(t)$ is

$$\begin{aligned} X(j\omega) &= \int_{-\infty}^{\infty} e^{-t} \cos(2t)u(t) - 0)e^{-j\omega t} dt \\ &= \int_0^{\infty} e^{-t} \cos(2t) e^{-j\omega t} dt \\ &= \int_0^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= e^{-j\omega/2} \int_0^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= e^{-j\omega/2} \int_0^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= e^{-j\omega/2} \int_0^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= e^{-j\omega/2} \int_0^{\infty} e^{-t} \cos(2t - j\omega t) dt \end{aligned}$$

$X(j\omega)$ is as shown in Figure 54.1.

- (b) For $x(t) = e^{-t} \cos(2t)$, then the Fourier transform $X(j\omega)$ of $x(t)$ is

$$\begin{aligned} X(j\omega) &= \int_{-\infty}^{\infty} e^{-t} \cos(2t) e^{-j\omega t} dt \\ &= \int_{-\infty}^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= \int_{-\infty}^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= \int_{-\infty}^{\infty} e^{-t} \cos(2t - j\omega t) dt \\ &= \int_{-\infty}^{\infty} e^{-t} \cos(2t - j\omega t) dt \end{aligned}$$

$X(j\omega)$ is as shown in Figure 54.2.



- 4.2. (a) Let $x_1(t) = \delta(t) + \delta(t) + \delta(t) = 3\delta(t)$. Then the Fourier transform $X_1(j\omega)$ of $x_1(t)$ is

$$\begin{aligned} X_1(j\omega) &= \int_{-\infty}^{\infty} 3\delta(t) e^{-j\omega t} dt \\ &= 3 \int_{-\infty}^{\infty} \delta(t) e^{-j\omega t} dt \\ &= 3 \int_{-\infty}^{\infty} \delta(t) e^{-j\omega t} dt \\ &= 3 \int_{-\infty}^{\infty} \delta(t) e^{-j\omega t} dt \end{aligned}$$

$X_1(j\omega)$ is as shown in Figure 54.3.

- (b) The signal $x_2(t) = \cos(2t) - \cos(t) + \cos(3t) = 0$ is as shown in the figure below. Clearly,

$$\frac{d}{dt} [\cos(2t) - \cos(t) + \cos(3t)] = -2\sin(2t) + \sin(t) - 3\sin(3t) = 0$$

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Therefore, the nonzero Fourier series coefficients of $x_2(t)$ are

$$a_0 = 0, \quad a_1 = \frac{1}{2} e^{j\pi/2} = \frac{j}{2}, \quad a_{-1} = \frac{1}{2} e^{-j\pi/2} = -\frac{j}{2}$$

From Section 4.2, we know that for periodic signals, the Fourier transform consists of a train of impulses occurring at $k\omega_0$. Furthermore, the area under each impulse is 2π times the Fourier series coefficient a_k . Therefore, for $x_2(t)$, the corresponding Fourier transform $X_2(j\omega)$ is given by

$$\begin{aligned} X_2(j\omega) &= 2\pi a_0 \delta(\omega) + 2\pi a_1 \delta(\omega - \omega_0) + 2\pi a_{-1} \delta(\omega + \omega_0) \\ &= 2\pi(0)\delta(\omega) + \pi e^{j\pi/2} \delta(\omega - \omega_0) + \pi e^{-j\pi/2} \delta(\omega + \omega_0) \end{aligned}$$

- 4.4. (a) The inverse Fourier transform is

$$\begin{aligned} x_1(t) &= (1/2\pi) \int_{-\infty}^{\infty} [2\pi \delta(\omega) + \pi \delta(\omega - \omega_0) + \pi \delta(\omega + \omega_0)] e^{j\omega t} d\omega \\ &= (1/2\pi) [2\pi \delta(\omega) + \pi e^{j\omega_0 t} + \pi e^{-j\omega_0 t}] \\ &= 1 + (1/2) e^{j\omega_0 t} + (1/2) e^{-j\omega_0 t} = 1 + \cos(\omega_0 t) \end{aligned}$$

- (b) The inverse Fourier transform is

$$\begin{aligned} x_2(t) &= (1/2\pi) \int_{-\infty}^{\infty} X_2(j\omega) e^{j\omega t} d\omega \\ &= (1/2\pi) \int_{-\infty}^{\infty} 2\pi \delta(\omega) e^{j\omega t} d\omega + (1/2\pi) \int_{-\infty}^{\infty} \pi e^{j\omega_0 t} \delta(\omega - \omega_0) e^{j\omega t} d\omega \\ &= 1 + \pi e^{j\omega_0 t} \int_{-\infty}^{\infty} \delta(\omega - \omega_0) e^{j\omega t} d\omega \\ &= 1 + \pi e^{j\omega_0 t} e^{j\omega_0 t} = 1 + \pi e^{j2\omega_0 t} \end{aligned}$$

- 4.5. From the given information,

$$\begin{aligned} x(t) &= (1/2\pi) \int_{-\infty}^{\infty} X(j\omega) e^{j\omega t} d\omega \\ &= (1/2\pi) \int_{-\infty}^{\infty} X(j\omega) e^{j\omega t} d\omega \\ &= (1/2\pi) \int_{-\infty}^{\infty} X(j\omega) e^{j\omega t} d\omega \\ &= (1/2\pi) \int_{-\infty}^{\infty} X(j\omega) e^{j\omega t} d\omega \end{aligned}$$

The signal $x(t)$ is zero when $\omega_0 = 2\pi/T$ is a nonzero integer multiple of π . This gives

$$T = \frac{2\pi}{\omega_0} = \frac{2}{\omega_0} \quad \text{for } \omega_0 \in \pi, \text{ and } \omega_0 \neq 0.$$

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Therefore,

$$\begin{aligned} X_1(j\omega) &= \int_{-\infty}^{\infty} [3\delta(t) - \delta(t) - \delta(t) + 2\delta(t) e^{-j\omega t}] dt \\ &= e^{-j\omega t} - e^{-j\omega t} - e^{-j\omega t} + 2e^{-j\omega t} = 0 \end{aligned}$$

$X_1(j\omega)$ is as shown in Figure 54.3.



- 4.6. (a) The signal $x_1(t) = \cos(2\pi t + \pi/4)$ is periodic with a fundamental period of $T = 1$. This translates to a fundamental frequency of $\omega_0 = 2\pi$. The nonzero Fourier series coefficients of this signal may be found by writing it in the form

$$\begin{aligned} x_1(t) &= \frac{1}{2} (e^{j(2\pi t + \pi/4)} + e^{-j(2\pi t + \pi/4)}) \\ &= \frac{1}{2} e^{j\pi/4} e^{j2\pi t} + \frac{1}{2} e^{-j\pi/4} e^{-j2\pi t} \end{aligned}$$

Therefore, the nonzero Fourier series coefficients of $x_1(t)$ are

$$a_0 = \frac{1}{2} e^{j\pi/4}, \quad a_1 = \frac{1}{2} e^{-j\pi/4}$$

From Section 4.2, we know that for periodic signals, the Fourier transform consists of a train of impulses occurring at $k\omega_0$. Furthermore, the area under each impulse is 2π times the Fourier series coefficient a_k . Therefore, for $x_1(t)$, the corresponding Fourier transform $X_1(j\omega)$ is given by

$$\begin{aligned} X_1(j\omega) &= 2\pi a_0 \delta(\omega - \omega_0) + 2\pi a_1 \delta(\omega + \omega_0) \\ &= (1/2) \pi e^{j\pi/4} \delta(\omega - 2\pi) + (1/2) \pi e^{-j\pi/4} \delta(\omega + 2\pi) \end{aligned}$$

- (b) The signal $x_2(t) = 1 + \cos(2\pi t + \pi/4)$ is periodic with a fundamental period of $T = 1/2$. This translates to a fundamental frequency of $\omega_0 = 4\pi$. The nonzero Fourier series coefficients of this signal may be found by writing it in the form

$$\begin{aligned} x_2(t) &= 1 + \frac{1}{2} (e^{j(2\pi t + \pi/4)} + e^{-j(2\pi t + \pi/4)}) \\ &= 1 + \frac{1}{2} e^{j\pi/4} e^{j2\pi t} + \frac{1}{2} e^{-j\pi/4} e^{-j2\pi t} \end{aligned}$$

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- 4.8. Throughout this problem, we assume that

$$x(t) \neq 0, \quad X(j\omega) \neq 0.$$

- (a) Using the time reversal property (Sec. 4.3.5), we have

$$x(-t) \leftrightarrow X^*(-j\omega)$$

Using the time shifting property (Sec. 4.3.5) on this, we have

$$x(-t + 1) \leftrightarrow e^{j\omega} X^*(-j\omega) \quad \text{and} \quad x(-t - 1) \leftrightarrow e^{-j\omega} X^*(-j\omega)$$

Therefore,

$$x_1(t) = x(-t + 1) + x(-t - 1) \leftrightarrow \frac{e^{j\omega} + e^{-j\omega}}{2} X^*(-j\omega) = \cos(\omega) X^*(-j\omega)$$

- (b) Using the time scaling property (Sec. 4.3.5), we have

$$x(2t) \leftrightarrow \frac{1}{2} X\left(j\frac{\omega}{2}\right)$$

Using the time shifting property on this, we have

$$x_2(t) = x(2t - 2) \leftrightarrow e^{-j\omega} \frac{1}{2} X\left(j\frac{\omega}{2}\right)$$

- (c) Using the differentiation in time property (Sec. 4.3.4), we have

$$\frac{dx(t)}{dt} \leftrightarrow j\omega X(j\omega)$$

Applying this property again, we have

$$\frac{d^2 x(t)}{dt^2} \leftrightarrow -\omega^2 X(j\omega)$$

Using the time shifting property, we have

$$x_3(t) = \frac{d^2 x(t)}{dt^2} - \frac{1}{2} \frac{d^2 x(t)}{dt^2} \leftrightarrow -\omega^2 X(j\omega) + \frac{1}{2} \omega^2 X(j\omega)$$

- 4.9. (a) Since $X_1(j\omega)$ is not conjugate symmetric, the corresponding signal $x_1(t)$ is not real. Since $X_2(j\omega)$ is neither even nor odd, the corresponding signal $x_2(t)$ is neither even nor odd.

- (b) The Fourier transform of a real and odd signal is purely imaginary and odd. Therefore, we may conclude that the Fourier transform of a purely imaginary and odd signal is real and odd. Since $X_3(j\omega)$ is real and odd, we may therefore conclude that the corresponding signal $x_3(t)$ is purely imaginary and odd.

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