

5.9. From Property 5.2.4 in Table 5.1, we know that for a real signal $x(t)$,

$$\mathcal{F}\{x(t)\} = \mathcal{F}\{x^*(t)\}^* = X^*(\omega^*)$$

From the given information,

$$\mathcal{F}\{x(t)e^{j\omega_0 t}\} = \frac{1}{2} \delta(\omega - \omega_0) + \frac{1}{2} \delta(\omega + \omega_0)$$

Therefore,

$$\mathcal{F}\{x(t)\} = \mathcal{F}\{e^{-j\omega_0 t} \mathcal{F}\{x(t)e^{j\omega_0 t}\}\} = \mathcal{F}\{e^{-j\omega_0 t} [\frac{1}{2} \delta(\omega - \omega_0) + \frac{1}{2} \delta(\omega + \omega_0)]\} = \frac{1}{2} \delta(\omega - \omega_0 - \omega_0) + \frac{1}{2} \delta(\omega + \omega_0 - \omega_0) = \frac{1}{2} \delta(\omega - 2\omega_0) + \frac{1}{2} \delta(\omega)$$

We also know that

$$\mathcal{F}\{x(t)\} = \frac{1}{2} \delta(\omega - \omega_0) + \frac{1}{2} \delta(\omega + \omega_0)$$

and that $x(t) = 0$ for $t > 0$. Therefore,

$$x(t) = 2\mathcal{F}^{-1}\{\mathcal{F}\{x(t)\}\} = \delta(t - \omega_0) + \delta(t + \omega_0) \quad \text{for } t < 0$$

Now we only have to find $x(t)$. Using Parseval's relation, we have

$$\frac{1}{2\pi} \int_{-\infty}^{\infty} |X(\omega)|^2 d\omega = \sum_{-\infty}^{\infty} |x(nT)|^2$$

From the given information, we can write

$$1 = |x(0)|^2 + \sum_{-\infty}^{\infty} |x(nT)|^2 = |x(0)|^2 + 2$$

This gives $x(0) = \pm j$. But since we are given that $x(t) > 0$, we conclude that $x(0) = 1$. Therefore,

$$x(t) = \delta(t) + \delta(t - \omega_0) + \delta(t + \omega_0)$$

5.10. From Table 5.2, we know that

$$\left(\frac{1}{t}\right)^* \leftrightarrow \int_{-\infty}^{\infty} \frac{1}{1 - j\omega t} d\omega$$

Using Property 5.3.8 in Table 5.1,

$$x(t) = \mathcal{F}^{-1}\left\{\left(\frac{1}{t}\right)^* \leftrightarrow \int_{-\infty}^{\infty} \frac{1}{1 - j\omega t} d\omega\right\} = \int_{-\infty}^{\infty} \frac{1}{1 - j\omega t} d\omega$$

Therefore,

$$\sum_{-\infty}^{\infty} \left(\frac{1}{t}\right)^* = \sum_{-\infty}^{\infty} x(t) = X(\omega=0) = 1$$

The plot of $\mathcal{F}^{-1}\left\{\frac{1}{1 - j\omega t}\right\}$ is shown in Figure 55.11. It is clear that if $X(\omega) = X_1(\omega) + X_2(\omega)$, then $\mathcal{F}^{-1}\{X(\omega)\} = x_1(t) + x_2(t)$.

5.11. When two LTI systems are connected in parallel, the impulse response of the overall system is the sum of the impulse responses of the individual systems. Therefore,

$$h(t) = h_1(t) + h_2(t)$$

Using the linearity property (Table 5.1, Property 5.3.2),

$$H(\omega) = H_1(\omega) + H_2(\omega)$$

Given that $h_1(t) = (1/2)^n u(t)$, we obtain

$$H_1(\omega) = \frac{1}{1 - \frac{1}{2}e^{-j\omega}}$$

Therefore,

$$H_2(\omega) = \frac{-\frac{1}{2} + \frac{1}{2}e^{-j\omega}}{\frac{1}{2} - \frac{1}{2}e^{-j\omega} + \frac{1}{2}e^{-j2\omega}} = \frac{1}{1 - \frac{1}{2}e^{-j\omega}} = \frac{1}{1 - \frac{1}{2}e^{-j\omega}}$$

Taking the inverse Fourier transform,

$$h_2(t) = -2 \left(\frac{1}{2}\right)^n u(-t)$$

5.12. From the given information, we have the Fourier transform $X(\omega)$ of $x(t)$ to be

$$X(\omega) = \delta(\omega) + \delta(\omega - \omega_0)$$

Also, when the input to the system is $x(t) = (1/\sqrt{2})\delta(t)$, the output is $y(t)$. Therefore,

$$Y(\omega) = \frac{X(\omega)}{X(\omega=0)}$$

From Table 5.2, we obtain

$$X(\omega) = \frac{1}{1 - \frac{1}{2}e^{-j\omega}}$$

Therefore,

$$Y(\omega) = \delta(\omega) + \delta(\omega - \omega_0) \left(1 - \frac{1}{2}e^{-j\omega}\right) = \delta(\omega) + \delta(\omega - \omega_0) - \frac{1}{2}\delta(\omega - \omega_0) - \frac{1}{2}\delta(\omega - \omega_0)$$

Clearly, $Y(\omega)$ is a three-point spectrum.

We have

$$Y(\omega) = \delta(\omega) + \delta(\omega - \omega_0) + \delta(\omega - 2\omega_0)$$

5.13. We know from the time expansion property (Table 5.1, Property 5.2.7) that

$$x(t) = x_{2T}(t) \sum_{k=-\infty}^{\infty} \delta(t - 2kT) = X(\omega) \delta(\omega)$$

Therefore, $X(\omega)$ is obtained by compressing $X(\omega)$ by a factor of 2. Since we know that $X(\omega)$ is periodic with a period of 2π , we may conclude that $X(\omega)$ has a period which is $(1/2)2\pi = \pi$. Therefore,

$$X(\omega) = X(\omega - \pi) \quad \text{and } \omega \in \mathbb{R}$$

5.14. Consider the signal

$$x_1(t) = \begin{cases} \cos\left(\frac{\omega_0 t}{2}\right) & |t| \leq \frac{1}{\omega_0} \\ 0 & \text{otherwise} \end{cases}$$

From Table 5.2, we obtain the Fourier transform of $x_1(t)$ to be

$$X_1(\omega) = \begin{cases} \frac{1}{2} & 0 \leq \omega \leq \frac{\omega_0}{2} \\ \frac{1}{2} & -\frac{\omega_0}{2} \leq \omega < 0 \end{cases}$$

The plot of $X_1(\omega)$ is as shown in the Figure 55.12. Now consider the signal $x_2(t) = (1/\sqrt{2})\delta(t)$. Using the multiplication property (Table 5.1, Property 5.3.5), we obtain the Fourier transform of $x_2(t)$ to be

$$X_2(\omega) = (1/\sqrt{2})\delta(\omega) = X_1(\omega) \delta(\omega)$$

This is plotted in the Figure 55.13.



From Figure 55.12 it is clear that $X_2(\omega)$ is zero for $|\omega| > \omega_0/2$. By using the commutation property (Table 5.1, Property 5.3.5), we note that

$$Y(\omega) = X_1(\omega) \mathcal{F}^{-1}\left\{\frac{1}{\sqrt{2}}\delta(\omega)\right\}$$

and

$$H_2(\omega) = \delta(\omega) + \delta(\omega - \omega_0) + \delta(\omega - 2\omega_0) = \delta(\omega) + \delta(\omega - \omega_0) + \delta(\omega - 2\omega_0)$$

We see that $H_2(\omega) = H_1(\omega)H_2(\omega)$ only if $\delta(\omega) = 0$.

We also have

$$H_2(\omega) = \delta(\omega) + \delta(\omega - \omega_0) + \delta(\omega - 2\omega_0) = \delta(\omega) + \delta(\omega)$$

Since we are also given that $H_2(\omega) = 1$, we have

$$\delta(\omega) + \delta(\omega) = 1 \quad (55.24-1)$$

Now note that

$$\delta(\omega) = \delta(\omega) - \delta(1/2\omega) + \delta(1/2\omega) = \sum_{k=-\infty}^{\infty} \delta(\omega - 2k\omega_0) - \delta(\omega)$$

Evaluating this equation at $\omega = 0$, we have

$$\delta(0) = 0 - \frac{1}{2}\delta(0) + \frac{1}{2}\delta(0) + \delta(0)$$

Since $\delta(0) = 0$,

$$\frac{1}{2}\delta(0) + \delta(0) = 0 \quad (55.24-2)$$

Solving equations (55.24-1) and (55.24-2), we obtain

$$\delta(0) = \frac{2}{3} \quad \text{and} \quad \delta(0) = -\frac{1}{3}$$

Therefore,

$$\delta(\omega) = \frac{2}{3}\delta(\omega) - \frac{1}{3}\delta(\omega) = \delta(\omega)$$

5.15. Consider $x(t) = \cos(\omega_0 t)u(t)$. The Fourier transform $X(\omega)$ of $x(t)$ is as shown in Figure 55.14. We note that the given signal $x(t) = \cos(\omega_0 t)u(t)$. Therefore, the Fourier transform $X(\omega)$ of $x(t)$ is

$$X(\omega) = \frac{1}{2} \int_{-\infty}^{\infty} \cos(\omega_0 t)u(t)e^{-j\omega t} dt$$

Employing the approach used in Example 5.13, we can convert the above periodic cosine pulse into an aperiodic signal by defining

$$X_1(\omega) = \begin{cases} \frac{1}{2} & -\omega_0 \leq \omega \leq \omega_0 \\ \text{otherwise} & \end{cases}$$

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Daniela Niemeyer



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Table of Contents Exercises Signals And Systems Oppenheim Solutions

1. Understanding the eBook Exercises Signals And Systems Oppenheim Solutions
 - The Rise of Digital Reading Exercises Signals And Systems Oppenheim Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Exercises Signals And Systems Oppenheim Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Exercises Signals And Systems Oppenheim Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exercises Signals And Systems Oppenheim Solutions

- Personalized Recommendations
 - Exercises Signals And Systems Oppenheim Solutions User Reviews and Ratings
 - Exercises Signals And Systems Oppenheim Solutions and Bestseller Lists
5. Accessing Exercises Signals And Systems Oppenheim Solutions Free and Paid eBooks
 - Exercises Signals And Systems Oppenheim Solutions Public Domain eBooks
 - Exercises Signals And Systems Oppenheim Solutions eBook Subscription Services
 - Exercises Signals And Systems Oppenheim Solutions Budget-Friendly Options
 6. Navigating Exercises Signals And Systems Oppenheim Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Exercises Signals And Systems Oppenheim Solutions Compatibility with Devices
 - Exercises Signals And Systems Oppenheim Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exercises Signals And Systems Oppenheim Solutions
 - Highlighting and Note-Taking Exercises Signals And Systems Oppenheim Solutions
 - Interactive Elements Exercises Signals And Systems Oppenheim Solutions
 8. Staying Engaged with Exercises Signals And Systems Oppenheim Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exercises Signals And Systems Oppenheim Solutions
 9. Balancing eBooks and Physical Books Exercises Signals And Systems Oppenheim Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exercises Signals And Systems Oppenheim Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Exercises Signals And Systems Oppenheim Solutions
 - Setting Reading Goals Exercises Signals And Systems Oppenheim Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Exercises Signals And Systems Oppenheim Solutions

- Fact-Checking eBook Content of Exercises Signals And Systems Oppenheim Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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