Chapter 4 Answers

(a) Let ((0)) in a "for "Suppl = (0). Then the Fourier transform X ((n)) of ((0)) in.

$$X(|p\omega|) = \int_{-\infty}^{\infty} e^{-ik|\omega|} dk(1-1)e^{-j\omega t} dt$$

 $= \int_{0}^{\infty} e^{-ik|\omega|-1} e^{-j\omega t} dt$
 $= e^{-j\omega t} f(2+j\omega)$

(2015) to be shown in Pigers 54.1:

(b) Let $\pi(t) = e^{-2kt-t}$. Then the Fourier transfers $X(y\omega)$ of $\pi(t)$ is:

$$\begin{array}{lll} X(p\omega) & = & \int_{-\infty}^{\infty} e^{-2(p-p)} e^{-p\omega} d\theta \\ & = & \int_{-\infty}^{\infty} e^{-2(p-p)} e^{-p\omega} d\theta \\ & = & e^{-2(p-p)} f(2-p\omega) + e^{-p\omega} f(2-p\omega) \\ & = & e^{-2(p-p)} f(2-p\omega) + e^{-p\omega} f(2-p\omega) \end{array}$$

(ACQUA)) in an alterest in Figure 54.5



6.3. (a) Let $x_0(t) = \delta(t + 1) + \delta(t - 1)$. Then the Pourier tensellers $X_1(t\omega)$ of x(t) is

$$X_k(j\omega) = \int_{-\infty}^{\infty} [\delta(k+1) + \delta(1-1)] e^{-j\omega t} dt$$

= $e^{\delta t} + e^{-jkt} = 2\cos \omega$

(Kyljick) in an electrical in Figure 54.5.

(b) The signal $x_0(t) = n(-2-t) + n(t-2)$ is as shown in the figure below. Clearly,

$$\frac{d}{dt}\{ad-2-t0+adt-2(b-4(t-2)-d(t-2)$$

Therefore, the numbers Fourier series coefficients of $a_2(t)$ are

$$m_0 = 0, \qquad m_1 = \frac{1}{2} \mu^2 m^2 k_\mu k m_1, \qquad \mu_{-1} = \frac{1}{2} \mu^{-1} \mu^2 k_\mu - \mu m_1$$

From Section 4.2, we know that for periodic signals, the Fourier transform consists of a train of impulses connecting at large Parthermore, the area under each impulse is be times the Parties seein coefficient o₀. Therefore, for a₁(t), the corresponding Funder transferm Xulput in given by

$$X_{P}(y_{m}) = 2ma_{m}\delta(y_{m}) + 2ma_{m}\delta(y_{m} - y_{m}) + 2ma_{m}\delta(y_{m} + y_{m})$$

= $2m\delta(y_{m}) + me^{2m/2}\delta(y_{m} - \delta w_{m}) + me^{2m/2}\delta(y_{m} + \delta w_{m})$

A. L. .. (A) The inverse Presides associated

$$s_1(t) = (1/2\pi) \int_{-\infty}^{\infty} [2\pi i (\omega) + \pi i (\omega - 4\pi) + \pi i (\omega + 4\pi)] e^{-t} d\omega$$

 $= (1/2\pi) [2\pi e^{it} + m^{tota} + m^{-tota}]$
 $= 1 + (1/2\pi) e^{-t} + (1/2\pi) e^{-t} - 1 + \cos(4\pi t)$

(b) The inverse Fourier transform is

$$n_0(t) = (1/2\pi) \int_{-\infty}^{\infty} X_0(j\omega) e^{j\omega t} d\omega$$

 $= (1/2\pi) \int_{0}^{\infty} 2e^{j\omega t} d\omega + (1/2\pi) \int_{-\infty}^{0} (-2j\omega)^{2\pi} d\omega$
 $= (e^{j\omega t} - 1)/(2\pi) - (1 - e^{j\omega t})/(2\pi)$
 $= e^{j\omega t} e^{j\omega t}/(2\pi)$

a.S. From the given indomination,

$$\begin{split} s(0) &= (0.72\pi) \int_{-\infty}^{\infty} S(y_0) e^{j\omega t} d\omega \\ &= (0.72\pi) \int_{-\infty}^{\infty} |S(y_0) e^{j\omega t} d\omega e^{j\omega t} \\ &= (0.72\pi) \int_{-\infty}^{\infty} |S(y_0) e^{j\omega t} d\omega e^{j\omega t} \\ &= (0.72\pi) \int_{-\infty}^{\infty} 3\pi^{-\frac{1}{2}(1-m)} e^{j\omega t} d\omega \\ &= \frac{\pi}{\pi (1-3/2)} \sin(30t-3/20) \end{split}$$

The riginal x(t) is zone when 30t-3/20 is a nonzero integer multiple of x. This gives

$$y = \frac{k_F}{2} + \frac{k_F}{2}$$
. So $k \in \mathbb{Z}$, and $k \neq 0$.

Therefore,

$$X_{p}(g\omega) = \int_{-\infty}^{\infty} (\delta(s-1) - \delta(s+2))e^{-\beta\omega t}dt$$

= $e^{-2\pi s} - e^{2\pi s} = -2\sin(2\omega)$

(X/15-0) is an electrical in Figure 24.2.



s.t. (a) The signal $a_1(t) = \min(2\pi t + \pi/4)$ is periodic with a fundamental period of T=1. This translates to a fundamental frequency of us = 2x. The sometry Fourier serves coefficients of this signal may be found by writing it in the form

$$\begin{split} x_{2}(t) &= \frac{1}{2g} \left(g_{2}((\max_{i} p_{i})) - g_{i}^{-1}((\max_{i} p_{i})) \right) \\ &= \frac{1}{2g} g_{2}^{-1}(p_{2}(\max_{i} p_{i})) \\ &= \frac{1}{2g} g_{2}^{-1}(p_{2}(\max_{i} p_{i})) \end{split}$$

Therefore, the nonzero Fourier series coefficients of $\sigma_{n}(t)$ are

$$m_1 = \frac{1}{4\sqrt{2}} e^{-\mu / 2} e^{2\pi i \sigma}, \quad m_{-1} = -\frac{1}{4\sqrt{2}} e^{-\mu / 2} e^{-\mu / 2}.$$

Prom. Section 4.2, we know that for periodic signals, the Person transform content of a train of impolant mountaining at Ros. Parthermore, the area under such impolant in Tr tripes the Process reven coefficient as. Therefore, for r₁(1), the corresponding Process tenantions Nation is given by

$$N_1(j\omega) = 2\pi a_1 R(\omega - \omega_0) + 2\pi a_{-1} R(\omega + \omega_0)$$

= $(\pi/j)(a^{(m)/2}R(\omega - 2\pi) - (\pi/j)(a^{-(m)/2}R(\omega + 2\pi))$

(b) The agend $xy(t) = 1 + \cos(6\pi t + \pi/8)$ is periodic with a fertilemental period of T = 1/2. This translates to a fundamental fingurary of us, in Sr. The sources Fourier series coefficients of this signal may be found by writing it in the form

$$x_0(0) = 1 + \frac{1}{2} \left(p^{(0)} - p^{(0)} - p^{(0)} - p^{(0)} \right)$$

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

6.6. Throughout this problem, we assume that

(a) Using the time reversal property (Sec. 4.5.5), we have

Using the time shifting property (Sec. 4.3.2) on this, we have

$$w(-t+1)\stackrel{P}{\leftarrow} e^{-p-t}X(-p\omega)$$
 and $w(-t-1)\stackrel{P}{\leftarrow} e^{-rt}X(-p\omega)$

Theresident.

$$x_{ij}(t) = x(-t+1) = x(-t-1)$$
 if $x_{ij} = e^{-2i\pi t}X(-j\omega) = e^{2i\pi t}X(-j\omega)$
if $x_{ij} = x(-t+1) = x(-t-1)$

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

Uning the time shifting property on this, we have

$$su(0) = s(0) = 20$$
 $dX_{a} = 20 \omega_{A}^{2} X \{T_{a}^{a}\}$

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

Applying this property again, we have

Using the time shifting property, we have

$$a_{N}(0) = \frac{d^{N}a(0 - 1)}{dt^{N}} \frac{a^{np}}{a^{np}} e^{-a^{np}} \mathcal{K}(pa)a^{-pan}$$

a.v. (a) Since $X_i(j\omega)$ is not conjugate symmetric, the corresponding eigenf $x_i(i)$ is not read. Since $X_i(j\omega)$ is neither even nor odd, the corresponding eigenf $x_i(i)$ is neither even

(b) The Fourier transform of a real and odd signal is purely imaginary and odd. Threeform, we may conclude that the Fourier transform of a purely imaginary and odd signal is real and odd. Since X₀(x₀) is real and odd, we sawly threefor that the corresponding signal au(2) is provely imaginary and odd.

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Table of Contents Signals And Systems Oppenheim Solution Manual Pdf

- 1. Understanding the eBook Signals And Systems Oppenheim Solution Manual Pdf
 - o The Rise of Digital Reading Signals And Systems Oppenheim Solution Manual Pdf
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Signals And Systems Oppenheim Solution Manual Pdf
 - 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 Signals And Systems Oppenheim Solution Manual Pdf
 - User-Friendly Interface

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

- 12. Sourcing Reliable Information of Signals And Systems Oppenheim Solution Manual Pdf
 - Fact-Checking eBook Content of Signals And Systems Oppenheim Solution Manual Pdf
 - 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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