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) of its ac 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 54.1



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 an above 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 seems coefficient o₀. Therefore, for a₁(t), the corresponding Funder transferm X₂(p,q) 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 revenue 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 $x_i(t)$ is not read. Since $X_i(j\omega)$ is neither even nor odd, the corresponding eigenf $x_i(t)$ is neither even

(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 X₀(x₀) is real and odd, we sawly therefore conclude that the corresponding signal au(2) is provely imaginary and odd.

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Philip Dembigh

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Equations Basic Structures for IIR Systems Transposed Forms Basic Network Structures for FIR Systems Overview of Finite Precision Numerical Effects The Effects of Coefficient Quantization Effects of Roundoff Noise in Digital Filters Zero Input Limit Cycles in Fixed Point Realizations of IIR Digital Filters Summary 7 Filter Design Techniques Introduction Design of Discrete Time IIR Filters from Continuous Time Filters Design of FIR Filters by Windowing Examples of FIR Filter Design by the Kaiser Window Method Optimum Approximations of FIR Filters Examples of FIR Equiripple Approximation Comments on IIR and FIR Digital Filters Summary 8 The Discrete Fourier Transform Introduction Representation of Periodic Sequences the Discrete Fourier Series Summary of Properties of the DFS Representation of Periodic Sequences The Fourier Transform of Periodic Signals Sampling the Fourier Transform Fourier Representation of Finite Duration Sequences The Discrete Fourier Transform Properties of the Discrete Fourier Transform Summary of Properties of the Discrete Fourier Transform Linear Convolution Using the Discrete Fourier Transform The Discrete Cosine Transform DCT Summary 9 Computation of the Discrete Fourier Transform Introduction **Continuous and Discrete Signals and Systems** Samir S. Soliman, Mandyam Dhati Srinath, 1990 Signals & Systems 2nd Edition Alan V. Oppenheim, 2008-02-01 Signals and Systems Alan Oppenheim (etc), Alan S. Willsky, Ian T. Young, 1983 This exploration of signals and systems develops continuous time and discrete time concepts methods in parallel and features introductory treatments of the applications of these basic methods in such areas as filtering communication sampling discrete time processing of continuous time signals and feedback

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