

Answers to selected exercises for chapter 3

1.1 Apply $\cos(a + b) = \cos a \cos b - \sin a \sin b$, where

$$\begin{aligned} f_1(t) + f_2(t) &= A_1 \cos \omega_1 t + A_2 \sin \omega_1 t + A_3 \cos \omega_2 t + A_4 \sin \omega_2 t \\ &= (A_1 \cos \omega_1 t + A_2 \sin \omega_1 t) \cos \omega_1 t + (A_3 \cos \omega_2 t + A_4 \sin \omega_2 t) \sin \omega_1 t \\ &= C_1 \cos \omega_1 t + C_2 \sin \omega_1 t, \end{aligned}$$

where $C_1 = A_1 \cos \omega_1 t + A_2 \sin \omega_1 t$ and $C_2 = A_3 \cos \omega_2 t + A_4 \sin \omega_2 t$. Put $k = \omega_1/\omega_2 = C_2/C_1$ and look at signals that consist of $C_1 \cos k$ and $C_2 \sin k$ (this is possible since $(C_1/\omega_2)^2 + (C_2/\omega_2)^2 = 1$). Then $f_1(t) + f_2(t) = A_1 \cos \omega_1 t + \sin \omega_1 t \sin \omega_2 t = A \cos \omega_1 t + \sin \omega_1 t$.

1.2 Put $x_1 = A_1 e^{j\omega t}$ and $x_2 = A_2 e^{j\omega t}$, then $f_1(t) + f_2(t) = (x_1 + x_2)e^{j\omega t}$. Let $x = x_1 + x_2$, then $f_1(t) + f_2(t) = xe^{j\omega t}$. The signal $f_1(t) + f_2(t)$ is again a sinusoidal signal with amplitude $|x|$ and initial phase $\arg x$.

1.3 The power P is given by

$$\begin{aligned} P &= \frac{1}{T} \int_{-T/2}^{T/2} A^2 \cos^2(\omega t + \phi_0) dt = \frac{A^2}{T} \int_{-T/2}^{T/2} (1 + \cos(2\omega t + 2\phi_0)) dt \\ &= \frac{A^2}{2}. \end{aligned}$$

1.4 The energy content is $E = \int_{-\infty}^{\infty} e^{-t^2} dt = \frac{1}{2}$.

1.5 The power P is given by

$$P = \frac{1}{T} \sum_{n=-N}^N |\cos(n\pi/2)|^2 = \frac{1}{2}.$$

1.6 The energy content is $E = \sum_{n=-\infty}^{\infty} e^{-|n|}$, which is a geometric series with ratio $1/2$ ($= e^{-1/2}$).

1.7 a. If $u(t)$ is real, then the integral, and so $g(t)$, is also real.

b. Since

$$\left| \int u(\tau) d\tau \right| \leq \int |u(\tau)| d\tau,$$

it follows from the boundedness of $u(t)$, so $|u(\tau)| \leq M$ for some constant M , that $g(t)$ is also bounded.

c. The linearity follows immediately from the linearity of integration. The time-invariance follows from the substitution $\xi = t - t_0$ in the integral $\int_{-\infty}^{\infty} u(\tau - t_0) d\tau$ representing the response to $u(t - t_0)$.

d. Calculating $\int_{-\infty}^{\infty} \cos(\omega\tau) d\tau$ gives the following response: $\sin(\omega t) = \sin(\omega t) - \omega(1/\omega) = 2 \sin(\omega/2) \cos(\omega t) = \omega(2/\omega)$.

e. Calculating $\int_{-\infty}^{\infty} \sin(\omega\tau) d\tau$ gives the following response: $(-\cos(\omega t) + \cos(\omega t) - \omega(1/\omega) = 2 \sin(\omega/2) \sin(\omega t) = \omega(2/\omega)$.

f. From the response to $\cos(\omega t)$ it follows that the amplitude response is $(2 \sin(\omega/2)/\omega)$.

g. From the response to $\sin(\omega t)$ it follows that the phase response is $-\omega/2$ if $2 \sin(\omega/2)/\omega > 0$ and $-\omega/2 + \pi$ if $2 \sin(\omega/2)/\omega < 0$. From

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Table of Contents Fourier And Laplace Transforms Solution Manual

1. Understanding the eBook Fourier And Laplace Transforms Solution Manual
 - The Rise of Digital Reading Fourier And Laplace Transforms Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Fourier And Laplace Transforms Solution Manual
 - 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 Fourier And Laplace Transforms Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fourier And Laplace Transforms Solution Manual
 - Personalized Recommendations
 - Fourier And Laplace Transforms Solution Manual User Reviews and Ratings

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