

## 2 Signals and Systems: Part I

### Solutions to Recommended Problems

#### S2.1

(a) We need to use the relations  $\omega = 2\pi f$ , where  $f$  is frequency in hertz, and  $T = 2\pi/\omega$ , where  $T$  is the fundamental period. Thus,  $T = 1/f$ .

$$(i) \quad f = \frac{\omega}{2\pi} = \frac{\pi/3}{2\pi} = \frac{1}{6} \text{ Hz}, \quad T = \frac{1}{f} = 6 \text{ s}$$

$$(ii) \quad f = \frac{3\pi/4}{2\pi} = \frac{3}{8} \text{ Hz}, \quad T = \frac{8}{3} \text{ s}$$

$$(iii) \quad f = \frac{3/4}{2\pi} = \frac{3}{8\pi} \text{ Hz}, \quad T = \frac{8\pi}{3} \text{ s}$$

Note that the frequency and period are independent of the delay  $\tau$ , and the phase  $\theta$ .

(b) We first simplify:

$$\cos(\omega(t + \tau) + \theta) = \cos(\omega t + \omega\tau + \theta)$$

Note that  $\omega\tau + \theta$  could also be considered a phase term for a delay of zero. Thus, if  $\omega_s = \omega_r$  and  $\omega_s\tau_s + \theta_s = \omega_r\tau_r + \theta_r + 2\pi k$  for any integer  $k$ ,  $y(t) = x(t)$  for all  $t$ .

$$(i) \quad \omega_s = \omega_r, \quad \omega_s\tau_s + \theta_s = 2\pi, \quad \omega_r\tau_r + \theta_r = \frac{\pi}{3}(1) - \frac{\pi}{3} = 0 + 2\pi k$$

Thus,  $x(t) = y(t)$  for all  $t$ .

(ii) Since  $\omega_s \neq \omega_r$ , we conclude that  $x(t) \neq y(t)$ .

$$(iii) \quad \omega_s = \omega_r, \quad \omega_s\tau_s + \theta_s = \frac{1}{2}(1) + \frac{1}{2} \neq \frac{1}{2}(1) + \frac{1}{2} + 2\pi k$$

Thus,  $x(t) \neq y(t)$ .

#### S2.2

(a) To find the period of a discrete-time signal is more complicated. We need the smallest  $N$  such that  $\Omega N = 2\pi k$  for some integer  $k > 0$ .

$$(i) \quad \frac{\pi}{3} N = 2\pi k \rightarrow N = 6, \quad k = 1$$

$$(ii) \quad \frac{3\pi}{4} N = 2\pi k \rightarrow N = 8, \quad k = 2$$

(iii)  $\frac{1}{2} N = 2\pi k \rightarrow$  There is no  $N$  such that  $\frac{1}{2} N = 2\pi k$ , so  $x[n]$  is not periodic.

(b) For discrete-time signals, if  $\Omega_s = \Omega_r + 2\pi k$  and  $\Omega_s\tau_s + \theta_s = \Omega_r\tau_r + \theta_r + 2\pi k$ , then  $x[n] = y[n]$ .

$$(i) \quad \frac{\pi}{3} \neq \frac{8\pi}{3} + 2\pi k \text{ (the closest is } k = -1), \text{ so } x[n] \neq y[n]$$

$$(ii) \quad \Omega_s = \Omega_r, \quad \frac{3\pi}{4}(2) + \frac{\pi}{4} = \frac{3\pi}{4} - \pi + 2\pi k, \quad k = 1, \text{ so } x[n] = y[n]$$

$$(iii) \quad \Omega_s = \Omega_r, \quad \frac{1}{2}(1) + \frac{1}{2} = \frac{1}{2}(0) + \frac{1}{2} + 2\pi k, \quad k = 0, \quad x[n] = y[n]$$

# Engineering Signals And Systems Solution Manual

**Naveed Akhtar Malik, Syed Hamid  
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This supplement contains solutions to all end of chapter problems plus MATLAB problems [Instructor's Solutions Manual for Chen's Signals and Systems](#) Chi-Tsong Chen, Professor Department of Electrical Engineering Chi-Tsong Chen, 2004-03

Instructor's Solutions Manual for Chen's Signals and Systems third edition is a supplementary material that contains solutions to problems featured in the main text It is available free of charge to adopting professors [Analog and Digital Signals and Systems](#) R. K. Rao Yarlagadda, 2010-08-05 This book presents a systematic comprehensive treatment of analog and discrete signal analysis and synthesis and an introduction to analog communication theory This evolved from my 40 years of teaching at Oklahoma State University OSU It is based on three courses Signal Analysis a second semester junior level course Active Filters a first semester senior level course and Digital signal processing a second semester senior level course I have taught these courses a number of times using this material along with existing texts The references for the books and journals over 160 references are listed in the bibliography section At the undergraduate level most signal analysis courses do not require probability theory Only a very small portion of this topic is included here I emphasized the basics in the book with simple mathematics and the sophistication is minimal Theorem proof type of material is not emphasized The book uses the following model 1 Learn basics 2 Check the work using bench marks 3 Use software to see if the results are accurate The book provides detailed examples over 400 with applications A three number system is used consisting of chapter number section number example or problem number thus allowing the student to quickly identify the related material in the appropriate section of the book The book includes well over 400 homework problems Problem numbers are identified using the above three number system

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### **Table of Contents Engineering Signals And Systems Solution Manual**

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

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