

PROBLEM 13.1:



$$x[n] = 3 + 2e^{j0.2\pi n} + 2e^{-j0.2\pi n} - 7je^{j0.7\pi n} + 7je^{-j0.7\pi n}$$

$\swarrow 7e^{j\pi/2}$ $\swarrow 7e^{j\pi/2}$

(a)

$$\hat{\omega} = -0.2\pi \text{ is same as } \hat{\omega} = 2\pi - 0.2\pi = 1.8\pi$$

$$\hat{\omega} = -0.7\pi \longrightarrow \hat{\omega} = 2\pi - 0.7\pi = 1.3\pi$$

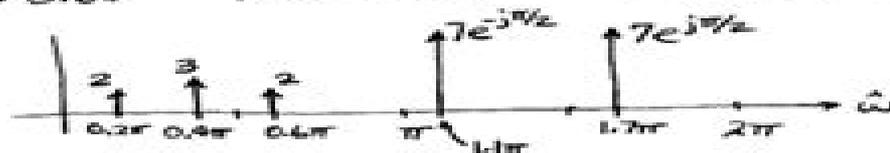


(b) $x_b[n] = x[n]e^{j0.4\pi n}$

All frequencies will be increased by 0.4π

$$0 \rightarrow 0.4\pi \quad 0.7\pi \rightarrow 1.1\pi \quad 1.8\pi \rightarrow 2.2\pi$$

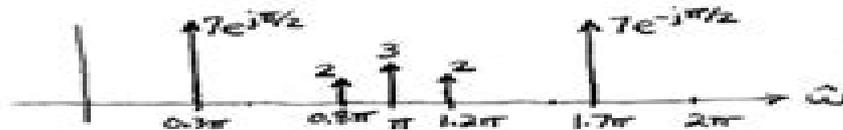
$$0.2\pi \rightarrow 0.6\pi \quad 1.3\pi \rightarrow 1.7\pi \quad \leftarrow = 2.2\pi - 2\pi = 0.2\pi$$



(c) $(-1)^n = e^{j\pi n}$, so all frequencies increase by π .

$$0 \rightarrow \pi \quad 0.7\pi \rightarrow 1.7\pi \quad 1.8\pi \rightarrow 2.8\pi \rightarrow 0.8\pi$$

$$0.2\pi \rightarrow 1.2\pi \quad 1.3\pi \rightarrow 2.3\pi \rightarrow 2.3\pi - 2\pi = 0.3\pi$$



Signal Processing First Solution Chapter 13

D. M. Etter



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Table of Contents Signal Processing First Solution Chapter 13

1. Understanding the eBook Signal Processing First Solution Chapter 13
 - The Rise of Digital Reading Signal Processing First Solution Chapter 13
 - Advantages of eBooks Over Traditional Books
2. Identifying Signal Processing First Solution Chapter 13
 - 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 Signal Processing First Solution Chapter 13
 - User-Friendly Interface
4. Exploring eBook Recommendations from Signal Processing First Solution Chapter 13

- Personalized Recommendations
 - Signal Processing First Solution Chapter 13 User Reviews and Ratings
 - Signal Processing First Solution Chapter 13 and Bestseller Lists
5. Accessing Signal Processing First Solution Chapter 13 Free and Paid eBooks
 - Signal Processing First Solution Chapter 13 Public Domain eBooks
 - Signal Processing First Solution Chapter 13 eBook Subscription Services
 - Signal Processing First Solution Chapter 13 Budget-Friendly Options
 6. Navigating Signal Processing First Solution Chapter 13 eBook Formats
 - ePub, PDF, MOBI, and More
 - Signal Processing First Solution Chapter 13 Compatibility with Devices
 - Signal Processing First Solution Chapter 13 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Signal Processing First Solution Chapter 13
 - Highlighting and Note-Taking Signal Processing First Solution Chapter 13
 - Interactive Elements Signal Processing First Solution Chapter 13
 8. Staying Engaged with Signal Processing First Solution Chapter 13
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Signal Processing First Solution Chapter 13
 9. Balancing eBooks and Physical Books Signal Processing First Solution Chapter 13
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Signal Processing First Solution Chapter 13
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Signal Processing First Solution Chapter 13
 - Setting Reading Goals Signal Processing First Solution Chapter 13
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Signal Processing First Solution Chapter 13

- Fact-Checking eBook Content of Signal Processing First Solution Chapter 13
 - 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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