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## CHAPTER 6

### Exercises

**E6.1** (a) The frequency of  $v_{in}(t) = 2\cos(2\pi \cdot 2000t)$  is 2000 Hz. For this frequency  $H(f) = 2\angle 60^\circ$ . Thus,  $V_{out} = H(f)V_{in} = 2\angle 60^\circ \times 2\angle 0^\circ = 4\angle 60^\circ$  and we have  $v_{out}(t) = 4\cos(2\pi \cdot 2000t + 60^\circ)$ .

(b) The frequency of  $v_{in}(t) = \cos(2\pi \cdot 3000t - 20^\circ)$  is 3000 Hz. For this frequency  $H(f) = 0$ . Thus,  $V_{out} = H(f)V_{in} = 0 \times 2\angle 0^\circ = 0$  and we have  $v_{out}(t) = 0$ .

**E6.2** The input signal  $v(t) = 2\cos(2\pi \cdot 500t + 20^\circ) + 3\cos(2\pi \cdot 1500t)$  has two components with frequencies of 500 Hz and 1500 Hz. For the 500-Hz component we have:

$$V_{out,1} = H(500)V_{in} = 3.5\angle 15^\circ \times 2\angle 20^\circ = 7\angle 35^\circ$$

$$v_{out,1}(t) = 7\cos(2\pi \cdot 500t + 35^\circ)$$

For the 1500-Hz component:

$$V_{out,2} = H(1500)V_{in} = 2.5\angle 45^\circ \times 3\angle 0^\circ = 7.5\angle 45^\circ$$

$$v_{out,2}(t) = 7.5\cos(2\pi \cdot 1500t + 45^\circ)$$

# Hambley Electrical Engineering Solutions Manual

**Jessica J Manson**



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### **Table of Contents Hambley Electrical Engineering Solutions Manual**

1. Understanding the eBook Hambley Electrical Engineering Solutions Manual
  - The Rise of Digital Reading Hambley Electrical Engineering Solutions Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Hambley Electrical Engineering Solutions 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 Hambley Electrical Engineering Solutions Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hambley Electrical Engineering Solutions Manual
  - Personalized Recommendations

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