

# Digital Signal Processing using MATLAB

## 3rd Edition Schilling

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### Chapter 5

**S.1** Consider the following first order IIR filter.

$$H(z) = \frac{.4(1 - z^{-1})}{1 + .2z^{-2}}$$

- (a) Compute and sketch the magnitude response  $A(f)$ .
- (b) What type of filter is this (lowpass, highpass, bandpass, bandstop)?
- (c) Suppose  $F_p = .4f_c$ . Find the passband ripple  $\delta_p$ .
- (d) Suppose  $F_s = .2f_c$ . Find the stopband attenuation  $\delta_s$ .

**Solution**

- (a) Using (S.2.1), the frequency response is

$$\begin{aligned} H(f) &= H(z)|_{z=e^{j2\pi fT}} \\ &= \frac{.4[1 - \exp(-j2\pi fT)]}{1 + .2 \exp(-j2\pi fT)} \\ &= \frac{.4[1 - \cos(2\pi fT) + j \sin(2\pi fT)]}{1 + .2 \cos(2\pi fT) - j.2 \sin(2\pi fT)} \end{aligned}$$

Thus the magnitude response is

# Chapter 3 Signal Processing Using Matlab

**EW Minium**



## **Chapter 3 Signal Processing Using Matlab:**

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### **Table of Contents Chapter 3 Signal Processing Using Matlab**

1. Understanding the eBook Chapter 3 Signal Processing Using Matlab
  - The Rise of Digital Reading Chapter 3 Signal Processing Using Matlab
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3 Signal Processing Using Matlab
  - 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 Chapter 3 Signal Processing Using Matlab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3 Signal Processing Using Matlab
  - Personalized Recommendations
  - Chapter 3 Signal Processing Using Matlab User Reviews and Ratings

- Chapter 3 Signal Processing Using Matlab and Bestseller Lists
- 5. Accessing Chapter 3 Signal Processing Using Matlab Free and Paid eBooks
  - Chapter 3 Signal Processing Using Matlab Public Domain eBooks
  - Chapter 3 Signal Processing Using Matlab eBook Subscription Services
  - Chapter 3 Signal Processing Using Matlab Budget-Friendly Options
- 6. Navigating Chapter 3 Signal Processing Using Matlab eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 3 Signal Processing Using Matlab Compatibility with Devices
  - Chapter 3 Signal Processing Using Matlab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 3 Signal Processing Using Matlab
  - Highlighting and Note-Taking Chapter 3 Signal Processing Using Matlab
  - Interactive Elements Chapter 3 Signal Processing Using Matlab
- 8. Staying Engaged with Chapter 3 Signal Processing Using Matlab
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 3 Signal Processing Using Matlab
- 9. Balancing eBooks and Physical Books Chapter 3 Signal Processing Using Matlab
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 3 Signal Processing Using Matlab
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 3 Signal Processing Using Matlab
  - Setting Reading Goals Chapter 3 Signal Processing Using Matlab
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 3 Signal Processing Using Matlab
  - Fact-Checking eBook Content of Chapter 3 Signal Processing Using Matlab
  - 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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