

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 δ_p .
- (d) Suppose $F_s = .2f_c$. Find the stopband attenuation δ_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

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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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