

# 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

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**Ensheng Dong**



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*Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK* Thad B. Welch, Cameron H.G. Wright, Michael G. Morrow, 2005-12-21 From personal music players to anti lock brakes and advanced digital flight controllers the demand for real time digital signal processing DSP continues to grow Mastering real time DSP is one of the most challenging and time consuming pursuits in the field exacerbated by the lack of a resource that solidly bridges the gap between theory and practice Recognizing that there is a better way forward accomplished experts Welch Wright and Morrow offer Real Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK This book collects all of the necessary tools in a single field tested source of unrivaled authority The authors seamlessly integrate theory with easy to use inexpensive hardware and software tools in an approachable and hands on manner Using abundant examples and exercises in a step by step approach they work from familiar interfaces such as MATLAB to running algorithms in real time on industry standard DSP hardware For each concept the book uses a four step methodology a brief review of relevant theory demonstration of the concept in winDSK6 an easy to use software tool explanation and demonstration of MATLAB techniques for implementation and explanation of the necessary C code to implement the algorithms in real time Covering a broad spectrum of topics in a hands on concise and approachable way Real Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK paves the way toward mastery of real time DSP Essential source code is available for download

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*Digital Signal Processing Using MATLAB V.4* Vinay K. Ingle, John G. Proakis, 1997 Intended to supplement traditional references on digital signal processing DSP for readers who wish to make MATLAB an integral part of DSP this

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presents compression techniques for digital video stream describing their design using various image transforms such as discrete cosine transform DCT discrete wavelet transform DWT and singular value decomposition SVD It first discusses the basic requirements and applications of video compression techniques The book then addresses video compression using DCT as well as the hybrid compression technique designed and implemented using DCT DWT and SVD demonstrating the simulation results for both Lastly it proposes future research directions in the field

Student Manual for Digital Signal Processing with MATLAB John G. Proakis, Vinay K. Ingle, 2007

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A Digital Signal Processing Laboratory Using the TMS320C30 Henrik V. Sorensen, Jianping Chen, 1997 This book is appropriate for first year graduate students as well as undergraduate seniors Designed for courses in DSP DSP Hardware Microprocessors Centered around a set of experiments for the TMS320C30 the goal of this book is to teach how to program the TMS320C30 and illustrate concepts from the theory of digital signal processing The user must have a solid understanding of DSP algorithms as well as an appreciation of basic

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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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