

# 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

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

Thus the magnitude response is

# Chapter 3 Signal Processing Using Matlab

**Vinay K. Ingle, John G. Proakis**



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

**Academic Press Library in Signal Processing** Paulo S.R. Diniz,Patrick A. Naylor,Johan Suykens,2013-09-21 This first volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in machine learning and advanced signal processing theory With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in machine learning Presents core principles in signal processing theory and shows their applications Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic 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 Computer-based Exercises for Signal Processing Using MATLAB 5 James H. McClellan,1998 For senior or introductory graduate level courses in digital signal processing Developed by a group of six eminent scholars and teachers this book offers a rich collection of exercises and projects which guide students in the use of MATLAB v5 to explore major topical areas in digital signal processing **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 text covers such topics as Discrete time signals and systems Discrete time Fourier

analysis the z Transform the Discrete Fourier Transform digital filter structures FIR filter design IIR filter design and more

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