

# 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

**Won Y. Yang**



### 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

*Computer-based Exercises for Signal Processing Using MATLAB* C. S. Burrus,1994      **Signal Processing Toolbox for Use with MATLAB** MathWorks, Inc,2002      **Network Modeling, Simulation and Analysis in MATLAB** Dac-Nhuong Le,Abhishek Kumar Pandey,Sairam Tadepalli,Pramod Singh Rathore,Jyotir Moy Chatterjee,2019-09-11 The purpose of this book is first to study MATLAB programming concepts then the basic concepts of modeling and simulation analysis particularly focus on digital communication simulation The book will cover the topics practically to describe network routing simulation using MATLAB tool It will cover the dimensions like Wireless network and WSN simulation using MATLAB then depict the modeling and simulation of vehicles power network in detail along with considering different case studies Key features of the book include Discusses different basics and advanced methodology with their fundamental concepts of exploration and exploitation in NETWORK SIMULATION Elaborates practice questions and simulations in MATLAB Student friendly and Concise Useful for UG and PG level research scholar Aimed at Practical approach for network simulation with more programs with step by step comments Based on the Latest technologies coverage of wireless simulation and WSN concepts and implementations      **Digital Signal and Image Processing Using MATLAB** Gerard Blanchet,Maurice Charbit,2006-05-22 This title provides the most important theoretical aspects of Image and Signal Processing ISP for both deterministic and random signals The theory is supported by exercises and computer simulations relating to real applications More than 200 programs and functions are provided in the MATLAB language with useful comments and guidance to enable numerical experiments to be carried out thus allowing readers to develop a deeper understanding of both the theoretical and practical aspects of this subject      Digital Signal Processing Kaluri V. Rangarao,Ranjan K. Mallik,2006-02-22 Digital signal processing is essential for improving the accuracy and reliability of a range of engineering systems including communications networking and audio and video applications Using a combination of programming and mathematical techniques it clarifies or standardizes the levels or states of a signal in order to meet the demands of designing high performance digital hardware Written by authors with a wealth of practical experience working with digital signal processing this text is an excellent step by step guide for practitioners and researchers needing to understand and quickly implement the technology Split into six self contained chapters Digital Signal Processing A Practitioner s Approach covers basic principles of signal processing such as linearity stability convolution time and frequency domains and noise descriptions of digital filters and their realization including fixed point implementation pipelining and field programmable gate array FPGA implementation Fourier transforms especially discrete DFT and fast Fourier transforms FFT case studies demonstrating difference equations direction of arrival DoA and electronic rotating elements and MATLAB programs to accompany each chapter A valuable reference for engineers developing digital signal processing applications this book is also a useful resource for electrical and computer engineering graduates taking courses in signal processing      *Digital Signal Processing Implementations* Avtar Singh,Srini

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*Biomedical Signal Processing Using Matlab* Luca Mainardi,Roberto Sassi,2016-05-09 Provides a unique emphasis on the practical aspect of implementing biomedical signal processing systems The book contains a learner centered approach in which readers are motivated to explore design and build solutions to given problems with the authors providing the reader with solutions and software codes for common biomedical problems The code guides the reader to a deeper understanding of the solution proposed and it is a starting point for further algorithms development and improvement To reach these goals each chapter topic is divided into three parts 1 fundamental 3 case study assignments Presents a logical step by step tutorial on biomedical signal processing from the theory to the practical using Matlab coding Focuses on worked examples and practical projects for teaching the subject which makes it an ideal practical text for lab based courses in biomedical signal processing Divided into two main sections whereby the first section Chapter 2 to 6 introduces basic topics in biomedical signal processing while the second section Chapter 7 to 11 deals with advanced and novel biomedical signal processing methodologies Companion website hosting online instructor manual with solutions of selected homework problems

**LabVIEW Digital Signal Processing** Cory Clark,2005-05-27 LabVIEW Digital Signal Processing teaches engineers how to use the graphical programming language to create virtual instruments to handle to most sophisticated DSP applications From basic filters to complex sampling mechanisms to signal generators LabVIEW virtual instruments VIs can make DSP work faster and much less expensive a particular boon to the many engineers working on cutting edge communications systems

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