Digital Signal Processing using MATLAB 3rd Edition Schilling

Chapter 5

5.1 Consider the following first order IIR filter.

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

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

Solution

(a) Using (5.2.1), 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

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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 Computer-based Exercises for Signal Processing Using MATLAB C. S. Burrus,1994 *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 **Network Modeling, Simulation and Analysis in MATLAB** Dac-Nhuong Le,Abhishek Kumar Pandey,Sairam Tadepalli,Pramod Singh Rathore,Jyotir Moy Chatterjee,2019-08-06 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 **Signal Processing Toolbox for Use with MATLAB** MathWorks, Inc,2002 **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 FGPA 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**

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Hybrid Video Compression Standard Dhaval R. Bhojani,Vedvyas J. Dwivedi,Rohit M. Thanki,2019-09-18 The book

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 **Applied Biomechatronics Using Mathematical Models** Jorge Garza Ulloa,2018-06-16 Applied Biomechatronics Using Mathematical Models provides an appropriate methodology to detect and measure diseases and injuries relating to human kinematics and kinetics It features mathematical models that when applied to engineering principles and techniques in the medical field can be used in assistive devices that work with bodily signals The use of data in the kinematics and kinetics analysis of the human body including musculoskeletal kinetics and joints and their relationship to the central nervous system CNS is covered helping users understand how the complex network of symbiotic systems in the skeletal and muscular system work together to allow movement controlled by the CNS With the use of appropriate electronic sensors at specific areas connected to bio instruments we can obtain enough information to create a mathematical model for assistive devices by analyzing the kinematics and kinetics of the human body The mathematical models developed in this book can provide more effective devices for use in aiding and improving the function of the body in relation to a variety of injuries and diseases Focuses on the mathematical modeling of human kinematics and kinetics Teaches users how to obtain faster results with these mathematical models Includes a companion website with additional content that presents MATLAB examples *A Self-study Guide for Digital Signal Processing* John G. Proakis,Vinay K. Ingle,2004 Digital Filters and Signal Processing in Electronic Engineering S M Bozic,R J Chance,1998-10 An unusual blend of theory and practice of digital signal processing DSP for advanced undergraduate and postgraduate electronics engineers It is also an R D source book for design engineers of embedded systems in real time computing and applied mathematicians who apply DSP techniques in telecommunications aerospace control systems satellite communications instrumentation and medical technology ultrasound and magnetic resonance imaging It is unique to find in one volume the implementation of the equations as algorithms not only in MATLAB but right up to a working DSP based scheme Other features include number representations multiply accumulate special addressing modes zero overhead iteration schemes and single and multiple instructions 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

computer architecture concepts **A Course in Digital Signal Processing** Boaz Porat,1997 Highly acclaimed teacher and researcher Porat presents a clear approachable text for senior and first year graduate level DSP courses Principles are reinforced through the use of MATLAB programs and application oriented problems *Getting Started with Signal Processing Blockset 6* ,2007

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