

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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Chao Zhang



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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

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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

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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 Biomechanics Using Mathematical Models Jorge Garza Ulloa, 2018-06-16 Applied Biomechanics 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

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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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