

Digital Signal Processing using MATLAB

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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

Chapter 3 Signal Processing Using Matlab

John G. Proakis, Vinay K. Ingle



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Digital Signal Processing Implementations Avtar Singh,Srini

Srinivasan,2004 Whether you are an engineering student or an engineer already engaged in system design this current book will become your essential companion guiding you in using both hardware and software as you design systems with programmable DSP devices Jacket *Signal Processing Algorithms in MATLAB* Samuel D. Stearns,Ruth A. David,1996 MATLAB is the current hot language in signal processing This book disk package deals the basic algorithms of digital signal processing and is written around a set of over 50 MATLAB function m files each of which is included on the disk Emphasizes the application as opposed to the theory of digital signal processing covering discrete Fourier transforms spectral analysis the frequency and time domain response of linear systems digital IIR and FIR filtering fast convolution and correlation algorithms least squares design adaptive signal processing and statistical parameters For signal processing engineers

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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 **IEEE Circuits & Devices** ,2006

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