

Chapter 4: Problem Solutions

Digital Filters

Problems on Non Ideal Filters

■ Problem 4.1

We want to design a Discrete Time Low Pass Filter for a voice signal. The specifications are:

Passband $F_p = 4 \text{ kHz}$, with 0.8 dB ripple;

Stopband $F_s = 4.5 \text{ kHz}$, with 50dB attenuation;

Sampling Frequency $F_s = 22 \text{ kHz}$.

Determine a) the discrete time Passband and Stopband frequencies, b) the maximum and minimum values of $|H(\omega)|$ in the Passband and the Stopband, where $H(\omega)$ is the filter frequency response.

Solution

a) Recall the mapping from analog to digital frequency $\omega = 2\pi F / F_s$, with F_s the sampling frequency. Then the passband and stopband frequencies become $\omega_p = 2\pi 4 / 22 \text{ rad} = 0.36\pi \text{ rad}$, $\omega_s = 2\pi 4.5 / 22 \text{ rad} = 0.41\pi \text{ rad}$;

b) A 0.8 dB ripple means that the frequency response in the passband is within the interval $1 \pm \delta$ where δ is such that $20 \log_{10} (1 + \delta) = 0.8$. This yields $\delta = 10^{0.04} - 1 = 0.096$. Therefore the frequency response within the passband is within the interval $0.9035 \leq |H(\omega)| < 1.096$. Similarly in the stopband the maximum value is $|H(\omega)| < 10^{-50/20} = 0.0031$.

■ Problem 4.2

A Digital Filter has frequency response $H(\omega)$ such that

$$\begin{aligned} 0.95 \leq |H(\omega)| \leq 1.05 & \quad \text{for } 0 \leq \omega \leq 0.3\pi \\ 0 \leq |H(\omega)| \leq 0.005 & \quad \text{for } 0.4\pi \leq \omega \leq \pi \end{aligned}$$

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Table of Contents Sample Problem Solutions From Chapter 4 Csus

1. Understanding the eBook Sample Problem Solutions From Chapter 4 Csus
 - The Rise of Digital Reading Sample Problem Solutions From Chapter 4 Csus
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Problem Solutions From Chapter 4 Csus
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sample Problem Solutions From Chapter 4 Csus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Problem Solutions From Chapter 4 Csus
 - Personalized Recommendations
 - Sample Problem Solutions From Chapter 4 Csus User Reviews and Ratings
 - Sample Problem Solutions From Chapter 4 Csus and Bestseller Lists

5. Accessing Sample Problem Solutions From Chapter 4 Csus Free and Paid eBooks
 - Sample Problem Solutions From Chapter 4 Csus Public Domain eBooks
 - Sample Problem Solutions From Chapter 4 Csus eBook Subscription Services
 - Sample Problem Solutions From Chapter 4 Csus Budget-Friendly Options
6. Navigating Sample Problem Solutions From Chapter 4 Csus eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Problem Solutions From Chapter 4 Csus Compatibility with Devices
 - Sample Problem Solutions From Chapter 4 Csus Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Problem Solutions From Chapter 4 Csus
 - Highlighting and Note-Taking Sample Problem Solutions From Chapter 4 Csus
 - Interactive Elements Sample Problem Solutions From Chapter 4 Csus
8. Staying Engaged with Sample Problem Solutions From Chapter 4 Csus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Problem Solutions From Chapter 4 Csus
9. Balancing eBooks and Physical Books Sample Problem Solutions From Chapter 4 Csus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Problem Solutions From Chapter 4 Csus
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sample Problem Solutions From Chapter 4 Csus
 - Setting Reading Goals Sample Problem Solutions From Chapter 4 Csus
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Problem Solutions From Chapter 4 Csus
 - Fact-Checking eBook Content of Sample Problem Solutions From Chapter 4 Csus
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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