

### Problem 1.12

We let  $x(t) = 0.3e^{j2\pi f_1 t} + 0.3e^{j2\pi f_2 t}$ , with Fourier transform:

$$X(f) = 0.3\delta(f - f_1) + 0.3\delta(f + f_1)$$

Its replication gives the spectrum of the sampled signal:

$$\begin{aligned} \hat{X}(f) &= \frac{1}{T} \sum_{m=-\infty}^{\infty} X(f - m/T) = \frac{1}{2T} \sum_{m=-\infty}^{\infty} [\delta(f - m/T - f_1) + \delta(f - m/T + f_1)] \\ &= \frac{1}{2T} \sum_{m=-\infty}^{\infty} [\delta(f - m/T - f_1) + \delta(f + m/T + f_1)] \end{aligned}$$

where in the second term, we changed the summation index from  $m$  to  $-m$ .

### Problem 1.13

We have for the complex-valued, the Laplace, Fourier, and magnitude spectra:

$$x(t) = e^{-\alpha t} e^{j2\pi f_0 t} + e^{-(\alpha + j2\pi f_0)t}, \quad t \geq 0$$

$$X(s) = \frac{1}{s + \alpha - j2\pi f_0}$$

$$|X(f)| = \frac{1}{\alpha + 2\pi|f| - f_0} \quad \Rightarrow \quad |X(f)|^2 = \frac{1}{\alpha^2 + 4\pi^2(f - f_0)^2}$$

The length- $L$  sampled signal  $x(nT) = e^{-\alpha nT} e^{j2\pi f_0 nT}$ ,  $n = 0, 1, \dots, L-1$  has spectrum:

$$\begin{aligned} \hat{X}_L(f) &= \sum_{n=0}^{L-1} x(nT) e^{-j2\pi f nT} = \sum_{n=0}^{L-1} e^{-\alpha nT} e^{j2\pi(f_0 - f)nT} \\ &= \frac{1 - e^{-(\alpha + j2\pi(f - f_0))L}}{1 - e^{-(\alpha + j2\pi(f - f_0))T}} \end{aligned}$$

with magnitude spectrum:

$$|\hat{X}_L(f)|^2 = \frac{1 - 2e^{-\alpha L} \cos(2\pi(f - f_0)L) + e^{-2\alpha L}}{1 - 2e^{-\alpha T} \cos(2\pi(f - f_0)T) + e^{-2\alpha T}}$$

In the limit  $L \rightarrow \infty$ , we have  $e^{-\alpha L} \rightarrow 0$  and obtain the sampled spectrum of the infinitely long signal:

$$\hat{X}(f) = \sum_{n=-\infty}^{\infty} x(nT) e^{-j2\pi f nT} = \frac{1}{1 - e^{-(\alpha + j2\pi(f - f_0))T}}$$

with magnitude spectrum:

$$|\hat{X}(f)|^2 = \frac{1}{1 - 2e^{-\alpha T} \cos(2\pi(f - f_0)T) + e^{-2\alpha T}}$$

The continuous time limit  $T \rightarrow 0$  of  $\hat{X}(f)$  gives rise to the analog spectrum:

$$\lim_{T \rightarrow 0} T \hat{X}(f) = \lim_{T \rightarrow 0} \frac{T}{1 - e^{-(\alpha + j2\pi(f - f_0))T}} = \frac{1}{\alpha + j2\pi(f - f_0)} = X(f)$$

Fig. P1.2 shows the required spectra. From the left graph, we see that as  $f_0$  increases, the sampled spectrum agrees more closely with the analog spectrum within the Nyquist interval. From the right graph, we see that the spectrum of the truncated sampled signal has ripples that follow the general shape of  $\hat{X}(f)$ . As  $L \rightarrow \infty$ , the sampled spectrum  $\hat{X}_L(f)$  will tend to  $\hat{X}(f)$ , which is only an approximation of the true spectrum—even within the Nyquist interval.

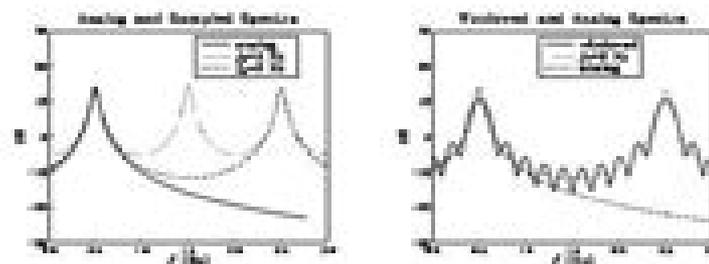


Fig. P1.2 Spectra of analog, sampled, and replicated signals of Problem 1.13.

In the case of real-valued signals, we will also get the spectral peaks at the negative frequency  $-f_0$ . If  $f_0$  is small, the peaks at  $\pm f_0$  will influence each other somewhat, but apart from that the same conclusions can be drawn about the sampled signals.

### Problem 1.14

This is the same as Example 1.3.4. In units of dB per decade, the attenuation due to the signal and filter combine to give:

$$A(f) = \alpha \log_{10} \left( \frac{f}{f_{\min}} \right) + \beta \log_{10} \left( \frac{f}{f_{\min}} \right) - \gamma \log_{10} \left( \frac{f}{f_{\min}} \right)$$

where  $\gamma = \alpha + \beta$ . The requirement  $A(f) = f_{\max} + A$  gives:

$$\gamma \log_{10} \left( \frac{f_{\max} - f_{\min}}{f_{\min}} \right) + A = f_1 + f_{\max} + f_{\max} 10^{A/20}$$

### Problem 1.15

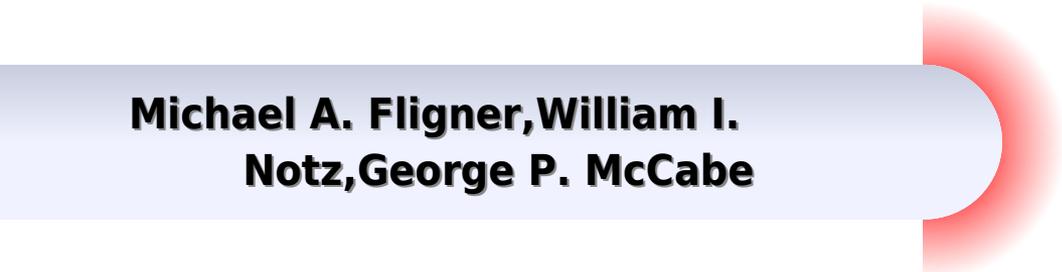
The first replica of  $X_m(f)$ , shifted to  $f_0$ , will have spectrum:

$$|X_m(f - f_0)| = \frac{1}{\sqrt{1 + (B_1(f - f_0))^2}}$$

Its value at the passband frequency  $f_{\max} = f_{\min} = 20$  kHz will be:

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## **Table of Contents Solution Manual Introduction To Signal**

1. Understanding the eBook Solution Manual Introduction To Signal
  - The Rise of Digital Reading Solution Manual Introduction To Signal
  - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Introduction To Signal
  - 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 Solution Manual Introduction To Signal
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Introduction To Signal
  - Personalized Recommendations
  - Solution Manual Introduction To Signal User Reviews and Ratings
  - Solution Manual Introduction To Signal and Bestseller Lists
5. Accessing Solution Manual Introduction To Signal Free and Paid eBooks
  - Solution Manual Introduction To Signal Public Domain eBooks
  - Solution Manual Introduction To Signal eBook Subscription Services
  - Solution Manual Introduction To Signal Budget-Friendly Options
6. Navigating Solution Manual Introduction To Signal eBook Formats

- ePub, PDF, MOBI, and More
  - Solution Manual Introduction To Signal Compatibility with Devices
  - Solution Manual Introduction To Signal Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Solution Manual Introduction To Signal
  - Highlighting and Note-Taking Solution Manual Introduction To Signal
  - Interactive Elements Solution Manual Introduction To Signal
8. Staying Engaged with Solution Manual Introduction To Signal
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Manual Introduction To Signal
9. Balancing eBooks and Physical Books Solution Manual Introduction To Signal
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution Manual Introduction To Signal
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Solution Manual Introduction To Signal
- Setting Reading Goals Solution Manual Introduction To Signal
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Manual Introduction To Signal
- Fact-Checking eBook Content of Solution Manual Introduction To Signal
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
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- Integration of Multimedia Elements
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