

### Problem 1.12

Write  $x(t) = 0.5e^{j2\pi f_0 t} + 0.5e^{-j2\pi f_0 t}$ , with Fourier transform:

$$X(f) = 0.5\delta(f - f_0) + 0.5\delta(f + f_0)$$

Its replication gives the spectrum of the sampled signal:

$$\begin{aligned}\hat{X}(f) &= \frac{1}{T} \sum_{m=-\infty}^{\infty} X(f - mf_0) = \frac{1}{2T} \sum_{m=-\infty}^{\infty} [\delta(f - mf_0 - f_0) + \delta(f - mf_0 + f_0)] \\ &= \frac{1}{2T} \sum_{m=-\infty}^{\infty} [\delta(f - mf_0 - f_0) + \delta(f - mf_0 + f_0)]\end{aligned}$$

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

### Problem 1.13

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

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

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

$$X(f) = \frac{1}{\alpha + j2\pi(f - f_0)} \quad \Rightarrow \quad |X(f)|^2 = \frac{1}{\alpha^2 + 4\pi^2(f - f_0)^2}$$

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

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

with magnitude spectrum:

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

In the limit  $L \rightarrow \infty$ , we have  $e^{-\alpha LT} \rightarrow 0$  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:

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

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.

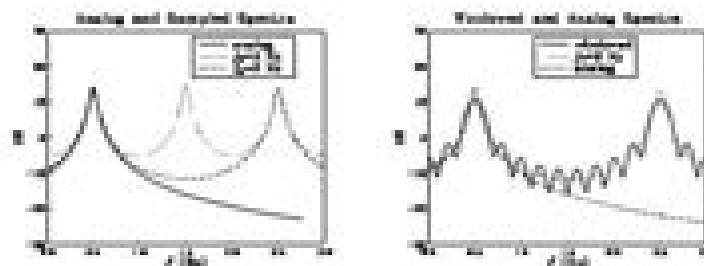


Fig. P1.2 Spectra of analog, sampled, and windowed signals of Problem 1.13.

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 attenuations 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  $A(f_c - f_{\min}) \geq A$  gives:

$$\gamma \log_{10} \left( \frac{f_c - f_{\min}}{f_{\min}} \right) \geq A \quad \Rightarrow \quad f_c \geq f_{\min} + f_{\min} 10^{A/\gamma}$$

### 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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**Michael A. Fligner, William I.  
Notz, George P. McCabe**



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