

Introduction

1-1

- 1.1 The gain $G = 20 \log(V_o/V_i) = 20 \log(5.34) = 14.55 \text{ dB}$
Phase shift $\Delta\theta = (180/\pi)(4.87 - 2.68) = 125.5^\circ$
- 1.2 At 12 kHz, the gain of the filter is $G = 10^{-30/20} = 1.259 \times 10^{-2}$
 $\therefore$ The amplitude of output signal is $V_o = V_i \cdot G = 1 \times 1.259 \times 10^{-2} = 125.9 \text{ } \mu\text{V}$.
- 1.3 $\alpha = 20 \log \left| \frac{45 \times 10^{-4}}{100 \times 10^{-3}} \right| = 20 \log(4.5 \times 10^{-4}) = -66.94 \text{ dB}$
- 1.4 The gain is $G = 10^{30/20} \angle -42^\circ = 56.23 \angle -42^\circ$, hence the output signal is
 $V_o = V_i \cdot G = 2.4 \angle 45^\circ \times 56.23 \angle -42^\circ = 135.0 \angle 3^\circ$
 $\therefore v_o(t) = 135.0 \cos(\omega_s t + 3^\circ)$
- 1.5 (a) Lowpass. Transition bandwidth $BW_{\text{tr}} = 9.6 - 3.4 = 6.2 \text{ kHz}$
(b) Bandpass. Transition bandwidths $BW_{\text{tr}1} = 12.5 - 7 = 5.5 \text{ kHz}$, $BW_{\text{tr}2} = 40 - 24 = 16 \text{ kHz}$
(c) Bandstop. Transition bandwidths $BW_{\text{tr}1} = 12.5 - 7 = 5.5 \text{ kHz}$, $BW_{\text{tr}2} = 40 - 24 = 16 \text{ kHz}$
(d) Highpass. Transition bandwidth $BW_{\text{tr}} = 40 - 24 = 16 \text{ kHz}$
(e) Lowpass. Transition bandwidth $BW_{\text{tr}} = 600 - 360 = 240 \text{ kHz}$
(f) Bandpass. Transition bandwidths $BW_{\text{tr}1} = 1000 - 730 = 270 \text{ kHz}$,
 $BW_{\text{tr}2} = 7.8 - 2.4 = 5.4 \text{ MHz}$
- 1.6 At dc, $s = 0$, hence the gain is $20 \log |F(s)|_{s=0} = 20 \log(2 \times 9.32/1) = 20 \log(18.64) = 25.41 \text{ dB}$
At high frequencies $|F(j\omega)|_{\omega \rightarrow \infty} = \omega^{-2}$, attenuation $\alpha(\omega) = 20 \log(1/\omega^2) = -40 \log(\omega)$ increases
40 dB per decade.
When $\omega = \infty$ (infinite), attenuation is infinite.
- 1.7 In this problem's solution, denormalized component values are denoted by a " $\sim$ ".
Denormalized parameters are $\overline{R}_1 = R_1 \cdot R_o$, $\overline{L} = \frac{R_o}{\omega_o} L$, and $\overline{C} = C/(\omega_o R_o)$, therefore $\overline{R}_1 = 300$
 Ω , $\overline{R}_2 = 300 \text{ } \Omega$, $\overline{L}_1 = 5.547 \text{ } \mu\text{H}$, $\overline{L}_2 = 4.365 \text{ } \mu\text{H}$, $\overline{L}_3 = 3.875 \text{ } \mu\text{H}$, $\overline{C}_1 = 126.0 \text{ pF}$, $\overline{C}_2 = 77.44 \text{ pF}$
- 1.8 In this problem's solution, denormalized component values are denoted by a " $\sim$ ". Since
denormalized capacitance is $\overline{C}_i = C_i/(\omega_o R_o)$, where R_o is the normalization resistor, we have
 $R_o = \frac{1}{\omega_o} \frac{C_1}{\overline{C}_1} = \frac{1}{2\pi \times 360 \times 10^3} \frac{0.765}{0.05 \times 10^{-9}} = 6.764 \text{ k}\Omega$
therefore the denormalized resistances are
 $\overline{R}_1 = R_1 \cdot R_o = 1.243 \times 6.764 \times 10^3 = 8.408 \text{ k}\Omega$
 $\overline{R}_2 = R_2 \cdot R_o = 1.677 \times 6.764 \times 10^3 = 11.343 \text{ k}\Omega$
 $\overline{R}_3 = R_3 \cdot R_o = 6.888 \times 6.764 \times 10^3 = 46.59 \text{ k}\Omega$

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