

First-Order Filters: Bilinear Transfer Functions and Frequency Response

does not affect its magnitude response.

(b) For 3.4(b). The circuit P3.28.2 can be used. The transfer function of the circuit is

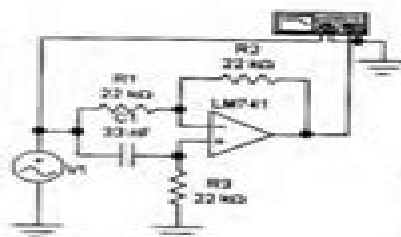
$$T_c(s) = \frac{R_2 C_1 s - K}{R_1 C_1 s + 1}, \text{ where } K = R_2 / R_3.$$

Compared with the transfer function required in the problem,

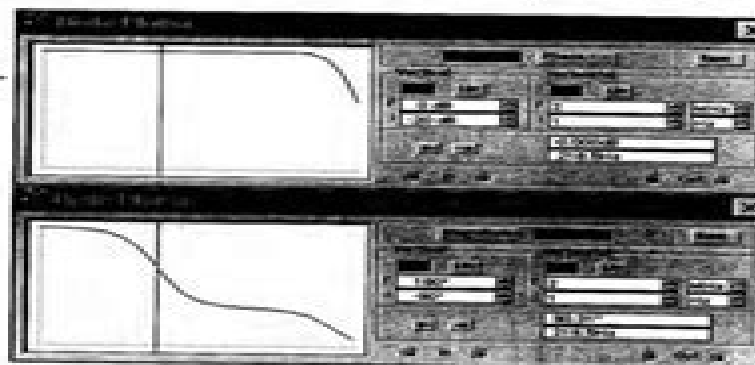
$$T(s) = \frac{s - 1400}{s + 1400}$$

we have $K = 1$, $R_2 C_1 = 1/1400$. If we take $C_1 = 33 \text{ nF}$, then $R_2 = 22 \text{ k}\Omega$. To make $K = 1$, other resistors can be relatively arbitrarily chosen to be $R_1 = R_3 = 22 \text{ k}\Omega$.

The measured gain is flat at 0 dB up to about 200 kHz. Due to the limited bandwidth of the opamp used, gain decreases after that. The total phase shift below cutoff frequency is 180°.



P3.28.2



(c) For 3.4(c). The transfer function can be transformed as

$$T(s) = 9 \frac{s/12000 + 1}{s/24000 + 1} = \frac{9G + 3Gs/4000}{G + Gs/24000} = \frac{G_1 + sC_1}{G_2 + sC_2}$$

which can be implemented by the circuit P3.28.3. The component values can be chosen as: $R_1 = 1.1 \text{ k}\Omega$, $C_1 = 75 \text{ nF}$, $R_2 = 10 \text{ k}\Omega$, $C_2 = 4.22 \text{ nF}$.

The measured $H_0 = 19.17 \text{ dB}$, $H_\infty = 25.02 \text{ dB}$. The transfer function implemented by the circuit has an extra minus sign as compared to the requirement, but does not affect its magnitude response. HA2542-2 is used for its higher unity-gain bandwidth.

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L Darling-Hammond



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