

Chapter 10 Problems

$$\begin{aligned} 10\text{-}2.1 \quad C_P &= C_1 R_3/R_1 = 0.1 \mu\text{F} \times 1 \text{ k}\Omega/547 \Omega = 0.183 \mu\text{F} \\ R_P &= R_1 R_4/R_3 = 547 \Omega \times 666 \Omega/1 \text{ k}\Omega = 364.3 \Omega \end{aligned}$$

$$\begin{aligned} D &= 1/(\omega C_P R_P) \\ &= 1/(2 \pi \times 1 \text{ kHz} \times 0.183 \mu\text{F} \times 364.3 \Omega) = 2.39 \end{aligned}$$

$$10\text{-}3.1 \quad \text{From Ex. 10-2,}$$

$$\begin{aligned} C_4 &= C_5 = 0.068 \mu\text{F} \text{ \& } R_4 = R_5 = 183.8 \Omega \\ R_3 &= C_4 R_4/C_1 = 0.068 \mu\text{F} \times 10 \text{ k}\Omega/0.1 \mu\text{F} = 6.8 \text{ k}\Omega \\ C_3 &= R_4 C_1/R_4 = 183.8 \Omega \times 0.1 \mu\text{F}/6.8 \text{ k}\Omega = 2700 \text{ pF} \end{aligned}$$

$$\begin{aligned} 10\text{-}4.1 \quad L_{S(\min)} &= C_3 R_1 R_{4(\min)} \\ &= 0.1 \mu\text{F} \times 100 \Omega \times 100 \Omega = 1 \text{ mH} \\ L_{S(\max)} &= C_3 R_1 R_{4(\max)} = 0.1 \mu\text{F} \times 100 \Omega \times 1 \text{ k}\Omega = 10 \text{ mH} \\ Q_{(\max)} &= 2 \pi f L_{S(\max)}/R_{3(\min)} \\ &= 2 \pi \times 10 \text{ kHz} \times 10 \text{ mH}/100 \Omega = 6.28 \\ Q_{(\min)} &= 2 \pi f L_{S(\min)}/R_{3(\max)} \\ &= 2 \pi \times 10 \text{ kHz} \times 1 \text{ mH}/1 \text{ k}\Omega = 0.0628 \end{aligned}$$

$$\begin{aligned} 10\text{-}5.1 \quad R_5 &= R_1 = 200 \Omega \\ \text{Coil resistance} &= R_5 - 185 \Omega = 15 \Omega \\ L_5 &= L + 2 M = 44 \text{ mH} + (2 \times 20 \text{ mH}) = 84 \text{ mH} \end{aligned}$$

$$\begin{aligned} 10\text{-}6.1 \quad C_x + C_P &= R_3 C_1/R_4 \\ &= 10.29 \text{ k}\Omega \times 0.1 \mu\text{F}/14.7 \text{ k}\Omega = 0.07 \mu\text{F} \\ C_x &= (C_x + C_P) - C_P = 0.07 \mu\text{F} - 0.068 \mu\text{F} = 2000 \text{ pF} \\ R_P \parallel R_x &= R_1 R_4/R_3 \\ &= 308.9 \text{ k}\Omega \times 14.7 \text{ k}\Omega/10.29 \text{ k}\Omega = 442.57 \text{ k}\Omega \\ R_P \parallel R_x &= 1/(1/R_P + 1/R_x) \text{ or } 1/(R_P \parallel R_x) = (1/R_P + 1/R_x) \\ \text{Giving, } 1/(442.57 \text{ k}\Omega) &= (1/553.1 \text{ k}\Omega) + (1/R_x) \\ \text{So, } R_x &= 1/[(1/442.57 \text{ k}\Omega) - (1/553.1 \text{ k}\Omega)] = 2.2 \text{ M}\Omega \end{aligned}$$

$$\begin{aligned} 10\text{-}1 \quad C_{3(\max)} &= C_1 R_{3(\max)}/R_{4(\min)} \\ &= 0.1 \mu\text{F} \times 200 \text{ k}\Omega/1 \text{ k}\Omega = 20 \mu\text{F} \\ C_{3(\min)} &= C_1 R_{3(\min)}/R_{4(\max)} = 0.1 \mu\text{F} \times 1 \text{ k}\Omega/200 \text{ k}\Omega = 500 \text{ pF} \end{aligned}$$

$$\begin{aligned} 10\text{-}2 \quad C_5 &= C_1 R_3/R_4 = 0.1 \mu\text{F} \times 1 \text{ k}\Omega/2.1 \text{ k}\Omega = 0.048 \mu\text{F} \\ R_5 &= R_1 R_4/R_3 = 109.5 \Omega \times 2.1 \text{ k}\Omega/1 \text{ k}\Omega = 230 \Omega \\ D &= \omega C_5 R_5 = 2 \pi \times 1 \text{ kHz} \times 0.048 \mu\text{F} \times 230 \Omega = 0.069 \end{aligned}$$

$$10\text{-}3 \quad R_5 = (R_1 R_4/R_3) - 3.9 \Omega$$

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