

Chapter 10 Problems

$$10-2.1 \quad C_P = C_1 R_3/R_1 = 0.1 \mu\text{F} \times 1 \text{ k}\Omega/547 \Omega = 0.183 \mu\text{F}$$

$$R_P = R_1 R_4/R_3 = 547 \Omega \times 666 \Omega/1 \text{ k}\Omega = 364.3 \Omega$$

$$D = 1/(\omega C_P R_P)$$

$$= 1/(2 \pi \times 1 \text{ kHz} \times 0.183 \mu\text{F} \times 364.3 \Omega) = 2.39$$

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

$$C_4 = C_5 = 0.068 \mu\text{F} \text{ \& } R_4 = R_5 = 183.8 \Omega$$

$$R_3 = C_4 R_4/C_1 = 0.068 \mu\text{F} \times 10 \text{ k}\Omega/0.1 \mu\text{F} = 6.8 \text{ k}\Omega$$

$$C_3 = R_4 C_1/R_4 = 183.8 \Omega \times 0.1 \mu\text{F}/6.8 \text{ k}\Omega = 2700 \text{ pF}$$

$$10-4.1 \quad L_{S(\min)} = C_3 R_1 R_{4(\min)}$$

$$= 0.1 \mu\text{F} \times 100 \Omega \times 100 \Omega = 1 \text{ mH}$$

$$L_{S(\max)} = C_3 R_1 R_{4(\max)} = 0.1 \mu\text{F} \times 100 \Omega \times 1 \text{ k}\Omega = 10 \text{ mH}$$

$$Q_{(\max)} = 2 \pi f L_{S(\max)}/R_{3(\min)}$$

$$= 2 \pi \times 10 \text{ kHz} \times 10 \text{ mH}/100 \Omega = 6.28$$

$$Q_{(\min)} = 2 \pi f L_{S(\min)}/R_{3(\max)}$$

$$= 2 \pi \times 10 \text{ kHz} \times 1 \text{ mH}/1 \text{ k}\Omega = 0.0628$$

$$10-5.1 \quad R_5 = R_1 = 200 \Omega$$

$$\text{Coil resistance} = R_5 - 185 \Omega = 15 \Omega$$

$$L_5 = L + 2 M = 44 \text{ mH} + (2 \times 20 \text{ mH}) = 84 \text{ mH}$$

$$10-6.1 \quad C_x + C_P = R_3 C_1/R_4$$

$$= 10.29 \text{ k}\Omega \times 0.1 \mu\text{F}/14.7 \text{ k}\Omega = 0.07 \mu\text{F}$$

$$C_x = (C_x + C_P) - C_P = 0.07 \mu\text{F} - 0.068 \mu\text{F} = 2000 \text{ pF}$$

$$R_P \parallel R_x = R_1 R_4/R_3$$

$$= 308.9 \text{ k}\Omega \times 14.7 \text{ k}\Omega/10.29 \text{ k}\Omega = 442.57 \text{ k}\Omega$$

$$R_P \parallel R_x = 1/(1/R_P + 1/R_x) \text{ or } 1/(R_P \parallel R_x) = (1/R_P + 1/R_x)$$

$$\text{Giving, } 1/(442.57 \text{ k}\Omega) = (1/553.1 \text{ k}\Omega) + (1/R_x)$$

$$\text{So, } R_x = 1/[(1/442.57 \text{ k}\Omega) - (1/553.1 \text{ k}\Omega)] = 2.2 \text{ M}\Omega$$

$$10-1 \quad C_{3(\max)} = C_1 R_{3(\max)}/R_{4(\min)}$$

$$= 0.1 \mu\text{F} \times 200 \text{ k}\Omega/1 \text{ k}\Omega = 20 \mu\text{F}$$

$$C_{3(\min)} = C_1 R_{3(\min)}/R_{4(\max)} = 0.1 \mu\text{F} \times 1 \text{ k}\Omega/200 \text{ k}\Omega = 500 \text{ pF}$$

$$10-2 \quad C_5 = C_1 R_3/R_4 = 0.1 \mu\text{F} \times 1 \text{ k}\Omega/2.1 \text{ k}\Omega = 0.048 \mu\text{F}$$

$$R_5 = R_1 R_4/R_3 = 109.5 \Omega \times 2.1 \text{ k}\Omega/1 \text{ k}\Omega = 230 \Omega$$

$$D = \omega C_5 R_5 = 2 \pi \times 1 \text{ kHz} \times 0.048 \mu\text{F} \times 230 \Omega = 0.069$$

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

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