

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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DJ Losen



Solution Manual Electronic Instrumentation Measurements David Bell:

Solution Manual Electronic Instrumentation Measurements David Bell: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year.

Solution Manual Electronic Instrumentation Measurements David Bell : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

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Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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