

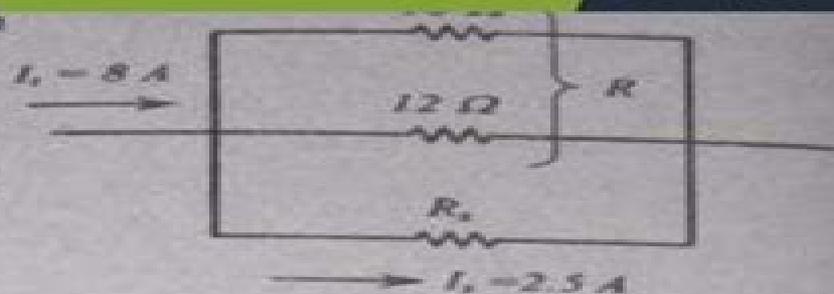
54
$$R = \frac{R_1 R_2}{R_1 + R_2} = \frac{10(12)}{10 + 12} = 5.45 \Omega$$

 By CDT:

$$I_2 = \frac{I_1 R}{R_2 + R}$$

$$R_2 = \frac{I_1 R}{I_2} - R = \frac{8(5.45)}{2.5} - 5.45 = 5.45 \Omega$$

$$R_2 = 12 \Omega$$



55 At 100°C:

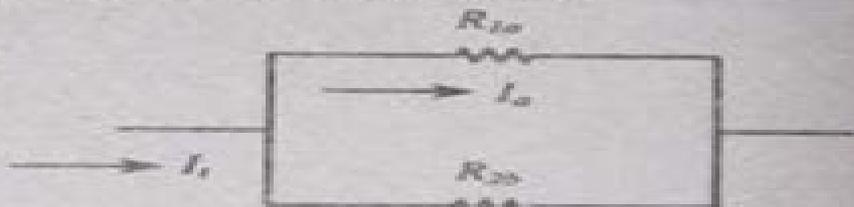
$$R_{20} = R_{10}(1 + \alpha_B \Delta t) = R_{10}[1 + 0.004(100 - 20)] = 1.32 R_{10}$$

$$R_{20} = R_{10}(1 + \alpha_D \Delta t) = R_{10}[1 + 0.006(100 - 20)] = 1.48 R_{10}$$

Note: Since they draw equal currents at 20 °C, then R₁₀ = R₁₅ = R.
 By CDT:

$$I_2 = \frac{I_1 (1.48R)}{1.32R + 1.48R} = 0.5286 I_1$$

$$I_2 = 52.86\% \text{ of } I_1$$



56 At 100°C:

$$R_{20} = R_{10}(1 + \alpha_B \Delta t) = R_{10}[1 + 0.003(60 - 15)] = 1.135 R_{10}$$

$$R_{20} = R_{10}(1 + \alpha_D \Delta t) = R_{10}[1 + 0.005(60 - 15)] = 1.225 R_{10}$$

Note: Since they draw equal powers at 15 °C, then R₁₀ = R₁₅ = R.

$$P_A = \frac{E^2}{R_{20}}; \quad P_B = \frac{E^2}{R_{20}}$$

$$\frac{P_B}{P_A} = \frac{R_{20}}{R_{20}} = \frac{1.135 R}{1.225 R} = 0.926$$

57
$$G_1 = \frac{1}{R_1}$$

$$\frac{1}{R_1} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$G_1 = \frac{1}{10} + \frac{1}{15} + \frac{1}{20}$$

$$G_1 = 0.2167 \text{ mho}$$



Electrical Engineering Problems And Solutions

Yicheng Fang



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