

35

Let: R_f = total resistance of the feeder conductors

$$R_f = 2 \left[\frac{0.078 \Omega}{1000 \text{ ft}} \times 2500 \text{ ft} \right] = 0.39 \Omega$$

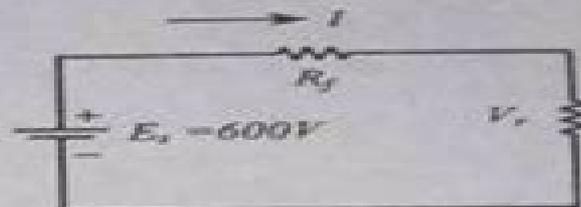
$$E_s = V_r + IR_f$$

$$E_s = \frac{P_r}{I} + IR_f$$

$$600 = \frac{60,000}{I} + I(0.39)$$

$$600I = 60,000 + 0.39I^2$$

$$I^2 - 1538.46 + 153846 = 0$$



Using the quadratic formula:

$$I = \frac{1538.46 \pm \sqrt{(1538.46)^2 - 4(1)(153846)}}{2(1)} = \frac{1538.46 \pm 1323.433}{2}$$

Note: Use negative sign for minimum current

$$I = \frac{1538.46 - 1323.433}{2} = 107.513 \text{ A}$$

$$I \approx 108 \text{ A}$$

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Let: R = total resistance of the line

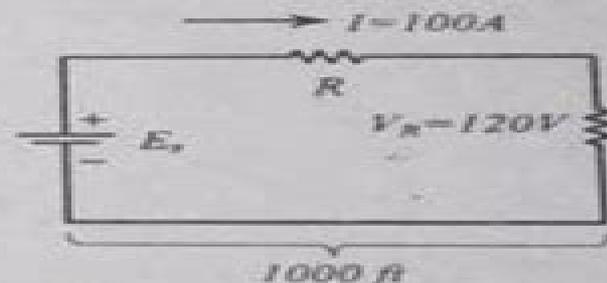
$$A = d^2 = (0.45 \times 1000)^2 = 202,500 \text{ CM}$$

$$R = \rho \frac{L}{A}$$

$$R = \frac{10.37(2000)}{202,500} = 0.1024 \Omega$$

$$E_s = V_R + IR = 120 + 100(0.1024)$$

$$E_s = 130.24 \text{ volts}$$



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Assume: R = equivalent resistance of the circuit

$$V_R = E_s - IR$$

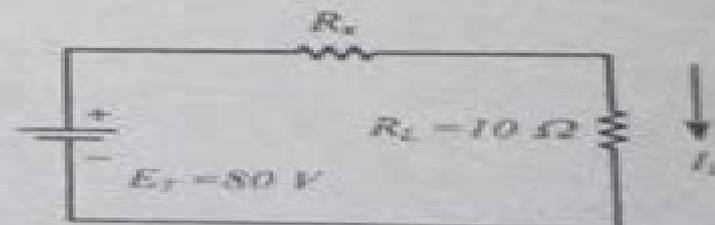
$$V_R = 750 - 100 [(0.27 + 0.06)(5)]$$

$$V_R = 585 \text{ V}$$

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$$I_L = \frac{V_L}{R_L} = \frac{50}{10} = 5 \text{ A}$$

$$R_s = \frac{E_s - V_L}{I_L} = \frac{80 - 50}{5} = 6 \Omega$$



Mathematics For N1 Electrical Engineering

Michael Rajnik



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