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Let: R_f = total resistance of the feeder conductors

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

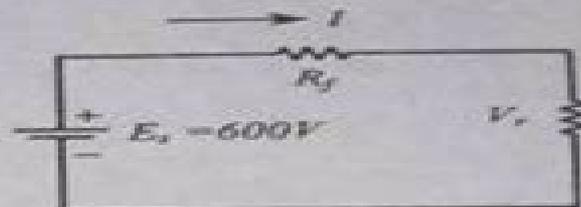
$$E_s = V_r + IR_f$$

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

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

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

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



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

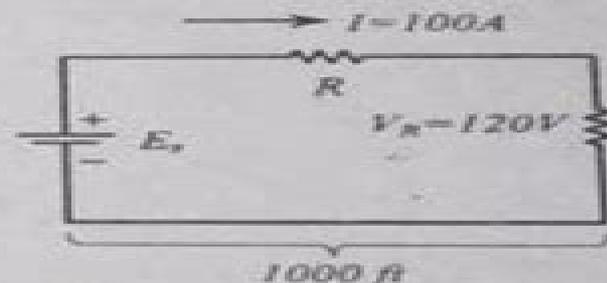
$$A = d^2 = (0.45 \times 1000)^2 = 202,500 \text{ CM}$$

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

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

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

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



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Assume: R = equivalent resistance of the circuit

$$V_R = E_s - IR$$

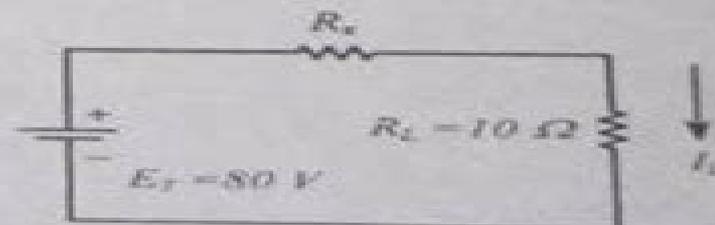
$$V_R = 750 - 100 [(0.27 + 0.06)(5)]$$

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

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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

AW Chickerling



Mathematics For N1 Electrical Engineering:

Steinmetz Electrical Engineering Library: Engineering mathematics; a series of lectures delivered at Union college (3rd ed. 1917) Charles Proteus Steinmetz,1917 *Redefining Education and Development* Kaitano Dube,2024-10-18 The book aligns with the United Nations Sustainable Development Goals SDGs particularly Goal 4 which focuses on quality education It explores the evolving role of education as a critical driver for achieving all 17 SDGs by providing a platform for discussing innovative educational models and theories that foster sustainable development The book takes an interdisciplinary approach merging educational theory developmental practice and human psychology to address complex global challenges hindering sustainable development The book includes case studies and empirical research such as exploring student entrepreneurship in the agricultural sector and the factors bridging the gap between entrepreneurial intention and venture creation These examples provide readers with practical applications of theoretical concepts and demonstrate the real world impact of educational innovations which is at the core of education delivery for all and how education touches on other areas of the SDGs The book offers valuable insights for policymakers educators and development practitioners by presenting research and theory based analyses It suggests ways to improve the academic environment to foster entrepreneurship and innovation which are key to economic development and job creation especially in regions with high youth unemployment rates The content suggests educational reforms that are responsive to the changing societal and economic landscapes The book s blend of theory and practice targets a broad audience including academic scholars students development agencies non governmental organisations and policymakers It seeks to engage these diverse readers in a conversation about the future of education and its role in achieving sustainable development In summary the book seeks to provide a comprehensive exploration of the nexus between education development and human needs in the context of the SDGs offering innovative perspectives and practical solutions to equip readers to contribute to sustainable global development

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