

Solutions to Test 2

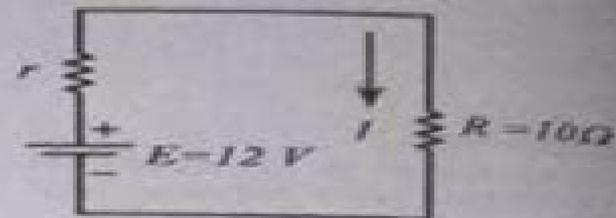
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$$I = \frac{E}{r + R}$$

$$r = \frac{E}{I} - R = \frac{12}{1.18} - 10$$

$$= 0.169 \Omega$$

$$r = 0.2 \Omega$$



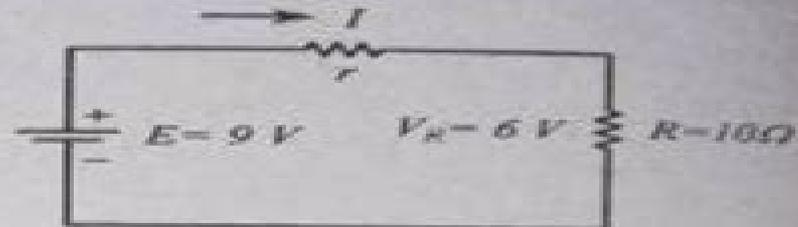
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$$I = \frac{V_R}{R} = \frac{6}{10} = 0.6 \text{ A}$$

$$V_r = E - V_R = 9 - 6 = 3 \text{ V}$$

$$r = \frac{V_r}{I} = \frac{3}{0.6}$$

$$r = 5 \Omega$$



33

$$I = \frac{V_R}{R} = \frac{1.3560}{1 \times 10^6}$$

$$I = 1.356 \times 10^{-6} \text{ A}$$

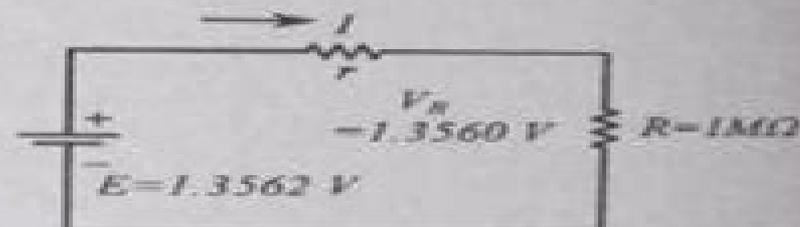
$$V_r = E - V_R$$

$$= 1.3562 - 1.3560$$

$$V_r = 0.0002 \text{ V}$$

$$r = \frac{V_r}{I} = \frac{0.0002}{1.356 \times 10^{-6}}$$

$$r = 147.5 \Omega$$



34

Let: r = internal resistance per cell.

$$I = \frac{E}{5r + R_L}$$

Substitute conditions:

$$1.5 = \frac{E}{5r + 4}$$

$$E = 7.5r + 6 \Rightarrow \textcircled{1}$$

$$0.75 = \frac{E}{5r + 9}$$

$$E = 3.75r + 6.75 \Rightarrow \textcircled{2}$$

Equate Eq. 1 to Eq. 2:

$$7.5r + 6 = 3.75r + 6.75$$



Electrical Engineering Solved Problems

LM Reder

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle behind it.

Electrical Engineering Solved Problems:

Decoding **Electrical Engineering Solved Problems**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Electrical Engineering Solved Problems**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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