

## Solutions to Test 2

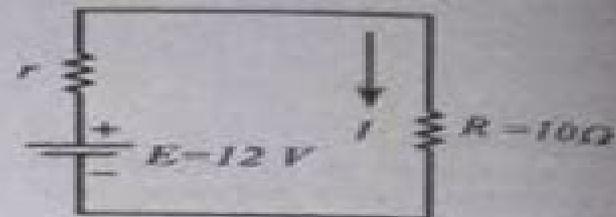
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$$I = \frac{E}{r + R}$$

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

$$= 0.169 \Omega$$

$$r = 0.2 \Omega$$



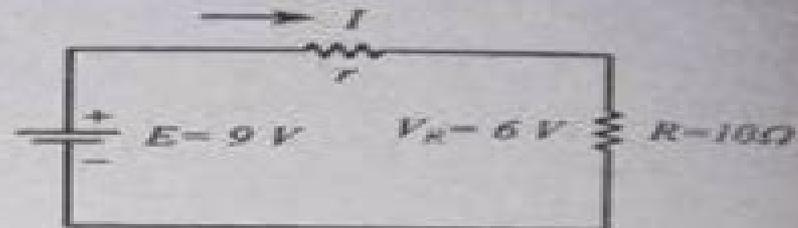
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$$I = \frac{V_R}{R} = \frac{6}{10} = 0.6 \text{ A}$$

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

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

$$r = 5 \Omega$$



33

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

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

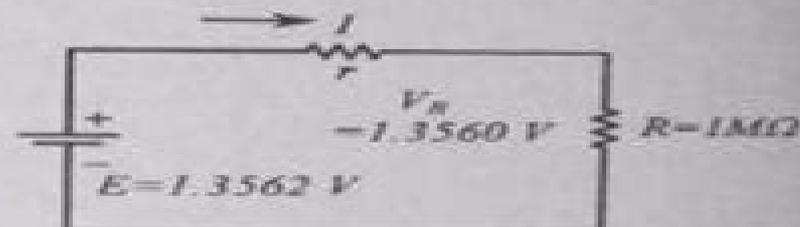
$$V_r = E - V_R$$

$$= 1.3562 - 1.3560$$

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

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

$$r = 147.5 \Omega$$



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

**Yicheng Fang**



## **Electrical Engineering Solved Problems:**

## **Electrical Engineering Solved Problems** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Electrical Engineering Solved Problems**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://matrix.jamesarcher.co/files/Resources/Documents/picture%20book%20toddlers%20complete%20workbook.pdf>

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