



Current Electricity

2010

Kirchhoff's Laws:

- Junction rule:** Conservation of Charge
- Loop rule:** Conservation of Energy

2013

10 identical cells in series
Heats a wire of length, L and radius ' r ' in ' t ' minutes

$$t_1 \cdot \frac{(10E)^2}{R} = m_1 C_v \Delta T$$

n identical cells in series
Heats a wire of length, $2L$ and radius ' r ' in ' t ' minutes

$$t_2 \cdot \frac{(nE)^2}{2R} = m_2 C_v \Delta T$$

$$\frac{t_1}{t_2} = \frac{m_1}{m_2} = \frac{1}{2}$$



$$R_{AB} : R_{BC} : R_{AC}$$



distance b/w cities : 150 km

Fall of potential / km : 8 V

Average Resistance / km : 0.5Ω

Power loss ?

(Power - 1 km) (150 km)

$$\left(\frac{V^2}{R} \right)_{1 \text{ km}} (150 \text{ km})$$

2012

Bulb (230 V, 100 Watt)
Voltage drops by 2.5%, then
power loss will $\downarrow$ by 5%.



Resistance per unit length, $\times$

- $R = \times l_1 + \times l_2$
- $\frac{8}{3} = \frac{(\times l_1)(\times l_2)}{(\times l_1 + \times l_2)}$

A wire is stretched by a factor of '10'. The resistance increases by a factor of 100. Specific Resistance remains same.



$$R_{eq} = \frac{(40)(120)}{(160)} + 5$$

$$I_{\text{current}} = \frac{V}{R_{eq}}$$



$$R_{eq} = R_1 + R_2 = \frac{1}{A} (P_1 + P_2)$$

$$NEW \quad Y = (1)(R_{eq}) \quad PLE$$

Calculating internal resistance of a cell:

$$r = R \left(\frac{l_1 l_2}{l_2} \right)$$

l_1 : Balanced because of E

l_2 : Balanced because of V_{ext}

In a meter bridge,

$$\frac{E}{R} = \frac{l_1}{100 - l_1}$$

$$\frac{E}{(R/2)} = \frac{1.6 l_1}{100 - 1.6 l_1}$$



$$12 = 500I + 100(I + I_g)$$

$$V_B = (I + I_g) 100$$

Internal resistance?

$$EMF = 2.1V ; \quad E = I(R+r)$$

$$R_{ext} = 10 \Omega \quad 2.1 = 0.2(10+r)$$

$$\text{Current } I = 0.2A$$

2011



Power across 9Ω : 36 watt
Potential difference across 2Ω ?

- $P_1 = I_1^2 R_1$
 $36 = I_1^2 (9)$
- $9(I_1) = 6(I_2)$
- $V = (I_1 + I_2) 2$

Battery of EMF, E and internal resistance, r

$$E = 2(R+2) \quad E = 0.5(R+9)$$

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**Humane Society of Kansas City,
Missouri**



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