

1. бер:

$$R = 20 \text{ Ом}$$

$$R_1 = 20 \text{ Ом}$$

$$R_2 = 20 \text{ Ом}$$

$$R_x = R + R_1 + R_2$$

$$\text{Маңғы: } R_x = 20 + 20 + 20 = 60 \text{ Ом}$$

$$\text{ж: } R_x = 60 \text{ Ом}$$

$$\eta R_x = ?$$

2 бер:

$$d_1 = 3,5 \text{ см}$$

$$L = 1,5 \text{ см}$$

3 бер:

$$R = 200 \text{ Ом}$$

$$\eta = 80\% = 0,8$$

$$U = 220 \text{ В}$$

$$t_2 = 25 \text{ мин} = 1500 \text{ с}$$

$$t_1 = 20^\circ \text{С}$$

$$V_0 = 0,6 \text{ л} = 0,6$$

$$\rho_{\text{сү}} = 1000 \text{ кг/м}^3$$

$$C = 4200 \frac{\text{Дж}}{\text{кг} \cdot ^\circ \text{С}}$$

$$\Delta m = ?$$

$$Q_1 = \eta R t = \frac{U^2}{R} t$$

$$Q_2 = cm(t_2 - t_1)$$

$$t_2 = 100^\circ \text{С}$$

$$t_1 = 20^\circ \text{С}$$

$$m_2 = \rho_{\text{сү}} \cdot V = 6 \cdot 10^{-4} - 10^{-3} = 0,6 \text{ кг}$$

$$\eta = \frac{Q_1}{Q_2} = \frac{\frac{U^2}{R} t}{cm(t_2 - t_1)}$$

$$m_1 = \frac{\frac{U^2}{R} t}{\eta \cdot C (t_2 - t_1)}$$

$$\Delta m = m_2 - m_1$$

4. бер:  $h_1 = 30 \text{ мм}$

$$h_2 = 60 \text{ мм}$$

$$\rho_k = 2700 \text{ кг/м}^3$$

$$\rho_{\text{м}} = 900 \text{ кг/м}^3$$

$$T/k: h - ?$$

$$\text{ш: } h = (60 \cdot 10^{-3} - 30 \cdot 10^{-3}) =$$

$$600 \cdot 10^{-3} - 300 \cdot 10^{-3} = 300 \cdot 10^{-3}$$

$$30 \cdot 10^{-3} \text{ м}$$

$$= 60 \cdot 10^{-3} \text{ м}$$

$$h_1 + h_2$$

$$\rho_k \cdot g (2h_1 + h_2) =$$

$$\rho_k \cdot g h$$

$$\rho_k \cdot g (h_1 - h_2) =$$

$$\rho_k h_1 (2)$$

$$\rho_k \cdot g (2h_1 - h_2)$$

$$h = (h_2 - h_1)$$

$$\text{ш: } m_1 = \frac{\frac{220^2}{200} \cdot 20}{0,8 \cdot 4200 (1500 - 20)} = \frac{44}{1880} = 42,7$$

$$m_2 = (6 \cdot 10^{-4} - 10^{-3}) \cdot 1000 \cdot 0,6 = 6 \cdot 10^{-4} \cdot 10^3 = 0,6$$

$$\Delta m = m_2 - m_1 = 0,6 - 42,7 = 42,1$$

rai-ph's-8 146.

Қатысушының шешімдерін толтыруға арналған өріс / Поле для заполнения решений участника

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