

Есеп: 1

$$R = 20 \Omega \quad | \quad (R_x = R \cdot R \cdot R) \quad | \quad R_x = 20 \Omega \cdot 20 \Omega \cdot 20 \Omega = 8000 \Omega$$

$$R_{xc} = ? \quad | \quad \eta = \frac{R}{u} \quad | \quad \eta = \frac{20 \Omega}{10} = 20 \text{ A} \quad R_y = 20 \text{ A} \cdot 1 \text{ B} = 20 \Omega$$

$$u = \frac{R}{\eta}$$

$$u = \frac{20 \Omega}{20 \text{ A}} = 1 \text{ B}$$

$$R_x = \frac{\eta \cdot u}{\eta}$$

Есеп: 3

$$R = 200 \Omega$$

$$u = 220 \text{ B}$$

$$\eta = 80\%$$

$$t_1 = 25 \text{ мин} = 1500 \text{ с}$$

$$T_1 = 20^\circ \text{C}$$

$$T_2 = 100^\circ \text{C}$$

$$V = 0,6 \text{ м}$$

$$c = 4200 \text{ Дж/кг} \cdot ^\circ \text{C}$$

$$\rho = 1000 \text{ кг/м}^3$$

$$\eta = \frac{u}{R}$$

$$m = V \cdot \rho$$

$$Q = c \cdot m (T_2 - T_1)$$

$$\eta = \frac{Q_1 \cdot Q_2}{Q} = 100\%$$

$$t_2 = q \cdot m$$

$$q = \frac{Q}{m}$$

$$\eta = \frac{220 \text{ B}}{200 \Omega} = 1,1 \text{ A}$$

$$m = 0,6 \text{ м} \cdot 1000 \frac{\text{кг}}{\text{м}^3} = 6000 \frac{\text{кг}}{\text{м}^3}$$

$$Q = 4200 \frac{\text{Дж}}{\text{кг} \cdot ^\circ \text{C}} \cdot 6000 \cdot (100^\circ \text{C} - 20^\circ \text{C})$$

$$= 4200 \cdot 6000 \cdot 80$$

$$= 1920 \cdot 10^6 \frac{\text{Дж}}{\text{м}^3} \cdot 80 = 15260 \frac{\text{Дж}}{\text{м}^3}$$

$$q = \frac{15260 \frac{\text{Дж}}{\text{м}^3}}{6000 \frac{\text{кг}}{\text{м}^3}} = 2,543 \frac{\text{Дж}}{\text{кг}}$$

$$t_2 = 2,543 \frac{\text{Дж}}{\text{кг}} \cdot 6000 \frac{\text{кг}}{\text{м}^3} = 15242 \frac{\text{Дж}}{\text{м}^3}$$

Есеп: 2

$$d_1 = 3,5 \text{ г/см} - 35 \quad | \quad d_1 : L \quad | \quad 35 : 15 = 2,24$$

$$L = 1,5 \text{ г/см} - 15$$

Есеп: 4

$$h_1 = 30 \text{ мм}$$

$$h_2 = 60 \text{ мм}$$

$$\rho_k = 2700 \frac{\text{кг}}{\text{м}^3}$$

$$\rho_m = 900 \frac{\text{кг}}{\text{м}^3}$$

$$p = \rho g h \quad | \quad p = 2700 \frac{\text{кг}}{\text{м}^3} \cdot 10 \cdot 30 \text{ мм} = 810000 \frac{\text{кг}}{\text{м}^2 \cdot \text{мм}}$$

$$h_3 = ? \quad | \quad p = 900 \frac{\text{кг}}{\text{м}^3} \cdot 10 \cdot 60 \text{ мм} = 540000 \frac{\text{кг}}{\text{м}^2 \cdot \text{мм}}$$

$$h_3 = \frac{810 \frac{\text{кг}}{\text{м}^2 \cdot \text{мм}}}{340 \frac{\text{кг}}{\text{м}^2 \cdot \text{мм}}} = 1,5$$

Чай-физ-8136

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