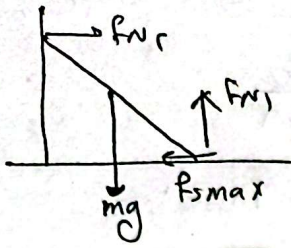


پایانگ کنکور ۱۴۰۵ رشته تجربی « محمدجواد بسبود »

$$(f) \frac{1}{\lambda} \rightarrow \frac{1}{\lambda}$$



$$F_{N1} = mg \quad (d2)$$

$$F_{N2} = F_{smax}$$

$$R = \sqrt{(\mu_s mg)^2 + (mg)^2} > mg \quad (3)$$

$$V_{max} = A(\pi f) \quad (d2)$$

$$V_{max} = 10 \quad T = 1.4s$$

$$\Delta x = 1 = A \times \frac{1}{f} \times \frac{1}{4}$$

$$A = 1.0m \leq 0.5m$$

$$E = 2m \pi f^2 A^2 \quad (d2)$$

$$\Delta x = 1 = 2 \times 1.1 \pi f^2 \times 1.4 \times 1.1$$

$$\pi f^2 = \frac{100}{\lambda}$$

$$a = \pi (\pi f)^2 = 3 \times 1.1^2 \times \frac{100}{\lambda}$$

$$a = 3 \times 1.1^2 \times \frac{100}{\lambda} = 1.8 m/s^2$$

$$V_{max} = A\omega \quad (d4)$$

$$V_{max} = A(\pi f)$$

$$V_{max} = 10 \times 1.1^2 \times \pi \times 1 = \frac{1}{8} \pi$$

$$\Delta \beta = 10 \log \left(\frac{r_1}{r_2} \right) \quad (d5)$$

$$-12 = 10 \log \left(\frac{r}{r+r_0} \right)$$

$$-2 + 2 \times 10 = \log \left(\frac{r}{r+r_0} \right)$$

$$\log 10^{-2} \times 10^2 = \log \left(\frac{r}{r+r_0} \right)$$

(d8) ضربه مستقیم B بشود؛ خطها با هم موازی خط اول باشد

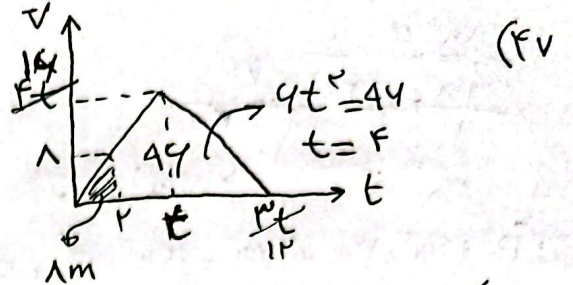
$$\frac{1}{v} = \left(\frac{1}{v} \right)^{\frac{1}{T}} \quad (d9)$$

$$N = N \cdot \left(\frac{1}{v} \right)^{\frac{1}{T}}$$

$$N = N \cdot \left(\frac{1}{v} \right)^{\frac{1}{T}}$$

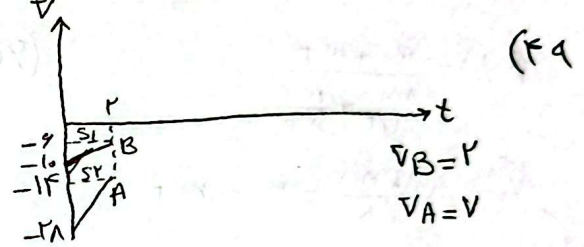
$$N = N \cdot \left(\frac{1}{v} \right)^{\frac{1}{T}}$$

$$\frac{1}{\lambda} = R \left(\frac{1}{f} - \frac{1}{\infty} \right) \rightarrow \lambda = \frac{f}{R} \quad (f4)$$



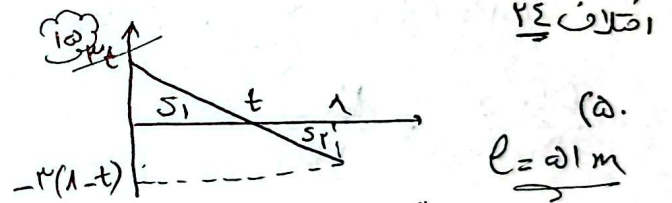
$$V_{av} = \frac{\Delta x}{\Delta t} = \frac{10.4}{1.4} \quad \Delta x = 11 \text{ درج } C_2$$

$$S_{av} = \frac{l}{\Delta t} = \frac{10.4}{1.4} = \frac{2}{v} \quad (f8)$$



$$S_1 = \frac{10 + 0}{2} \times 2 = 10m \quad \frac{2 \times 0}{2} = 0 \quad \Delta x = 14$$

$$S_2 = \frac{10 + 10}{2} \times 2 = 20m \quad \frac{2 \times 10}{2} = 10 \quad \Delta x = 14$$



$$\frac{1}{v} t^2 + \frac{1}{v} (1-t)^2 = 1$$

$$t^2 + t^2 - 14t + 42 = 32$$

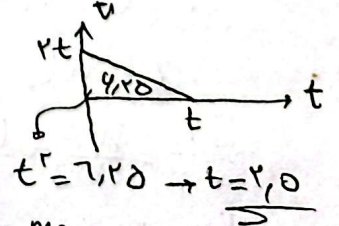
$$2t^2 - 14t + 10 = 0$$

$$t^2 - 7t + 5 = 0 \rightarrow t = 3.5 \text{ قبل}$$



$$-\mu mg = ma$$

$$a = -2$$



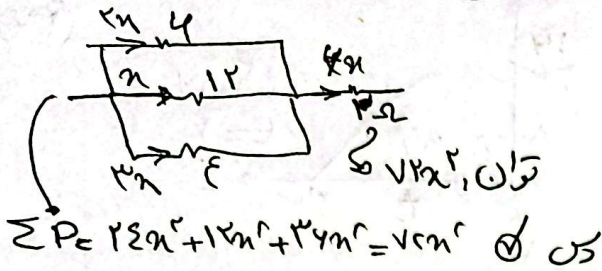
$$K \Delta x - mg = ma$$

$$10 \Delta x - 49 = 120$$

$$\Delta x = \frac{169}{10} = 16.9cm$$

20.4 mm

$P_1 = 2P_2$
 $\frac{V}{R_1} = 2 \frac{V}{R_2} \rightarrow R_2 = 2R_1$
 $R_1 = 4, R_2 = 12$



$R = \rho \frac{L}{A} \Rightarrow \frac{R_2}{R_1} = \frac{L_2}{L_1} \left(\frac{r_1}{r_2} \right)^2$

$\frac{R_2}{R_1} = \frac{1}{2} \times \frac{10}{4} = \frac{5}{2}$

$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$

$\frac{1}{R} = \frac{1}{12} + \frac{1}{12} = \frac{2}{12} = \frac{1}{6}$

$\frac{1}{R} = \frac{1}{6} \Rightarrow R = 6 \Omega$

$\Delta P = \rho g h$

$\frac{\Delta P}{\rho g h} = \frac{K}{\rho g h}$

$\Delta P(\text{KPa}) = \frac{9 \times 10^3}{10} = \frac{9 \times 10^3}{1} = 9 \text{ KPa}$

$P_g = \rho g h$

$P_g = 1000 \times 10 \times \frac{7}{10} = \frac{70000}{10} = 7000 \text{ Pa}$

$\eta = \eta_1 \times \eta_2 = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} = 0.25$

$Q = m L_f$

$\frac{Q_A}{Q_B} = \frac{m_A}{m_B} \times \frac{L_{fA}}{L_{fB}} \rightarrow \frac{1}{2} = \frac{1}{2} \times \frac{L_{fA}}{L_{fB}}$

$L_{fA} = 20 L_{fB}$

بور

$F_{1r} + F_{2r} = F_{1c}$

$2F_{1c} = F_{2c}$

$\frac{2q_1}{(r_1)^2} = \frac{q_2}{(r_2)^2}$

$\frac{2 \times 4}{4} = \frac{16}{r^2} \rightarrow q_2 = -2 \mu C$

$A = \pi r^2 L$

$E_1 = E_2$

$\frac{q_1}{(r_1)^2} = \frac{q_2}{(r_2)^2}$

$\frac{1}{2r^2} = \frac{16}{(r+2)^2} \Rightarrow \frac{1}{2} = \frac{16}{(r+2)^2}$

$r_1 + r_2 = \pm 4 \Rightarrow r_1 = 10$

در سطح آن

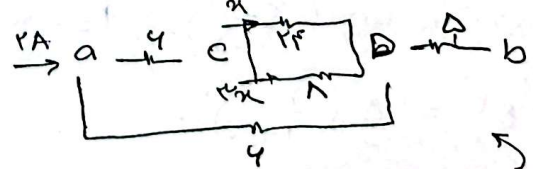
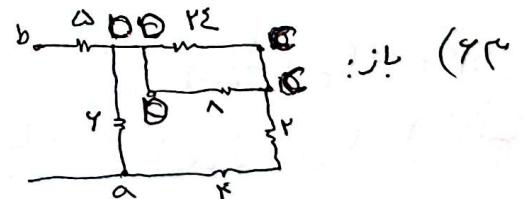
$C = \frac{Q}{V} \rightarrow V = \frac{Q}{C}$

$\frac{U_2}{U_1} = \frac{C_2}{C_1} : \frac{C_2}{C_1} = \frac{K_2}{K_1} = 2$

$U_2 = 2U_1 : U_1 = \frac{1}{2} C_2 V$

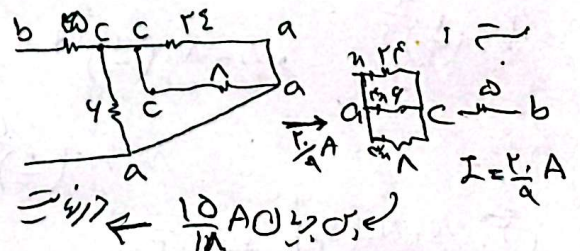
$U_2 = 400V : U_1 = 100V$

$\Delta U = \dots$



$R_{eq} = 4 \rightarrow I = \frac{E}{R_{eq}} = 2A$

$I = \frac{1}{2} A$



$$Al \xrightarrow{K_0} \boxed{\theta_e} \xleftarrow{V_0 \div 1} \quad (V_1)$$

$$1\% \times 9 \times (\theta_e - 2) = -1\% (4187) \times (\theta_e - 70)$$

$$3\% \theta_e - 720 = -4187 \theta_e + 4187(70)$$

بالتقريب $\theta_e = 27.2 \rightarrow 27^\circ C$.

$$E = E_{max} \sin\left(\frac{2\pi}{T} t\right) \quad (V_2)$$

$$E = 14 \sin\left(\frac{2\pi}{T} \times \frac{1}{4}\right) \quad E_{max} \times 2 \times R = 14$$

$$E = 14$$

$$N = \frac{B \ell}{\mu \cdot I} = \frac{1 \times 10^{-5} \times 2 \times 10^{-2}}{1.2 \times 10^{-6} \times 10^{-2}} \quad (V_3)$$

$N = 50$

(V_4) $\frac{C}{P} = A$

بسم الله الرحمن الرحيم

الحمد لله رب العالمين

(V_5) $\frac{C}{P} = A$

سود 29, 5, 12.5

رشته تجریر

رشته سلفه (4)