

A-30

Zagard $\sqrt{01}$

Dato:

$$S = 100 \text{ m}$$

$$\bar{h}_1 = \frac{1}{2}$$

$$Z_1 = 9.784c$$

$$t_2 = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}} + 0.05c$$

$$l = 1.22 \text{ m}$$

$$v_3 = 343 \text{ m} \cdot \text{s}^{-1}$$

$$t_1' - 1 \quad t_2' - 1$$

Решение

$$t_2 = t_1 + 0.05$$

$$t_2 = 9.784 + 0.005 = 9.789 \text{ (C)}$$

$$V_1 = \frac{S}{t_1} ; V_1 = \frac{100}{9.789} = 10.22 \text{ (m/c)}$$

$$v_2 = \frac{\sum}{t_2}; \quad v_1 = \frac{100}{9.789} = 10.21 \text{ (u/c)}$$

$$Q_7 = l_1 + (n-1)d: \quad l_1 = 1.22 + (7-1) \cdot 1.22 = 1.22 + 6 \cdot 1.22 = 8.54 \text{ (m)}$$

$$l_4 = l_1 + (n_2 - 1) d; \quad l_4 = 1.22 + (4 - 1) \cdot 1.22 = 1.22 + 3 \cdot 1.22 = 4.88 \text{ (m)}$$

$$\Delta t_1 = \frac{2R_7}{v_3} ; \Delta t_2 = \frac{2R_7}{v_3} ;$$

$$A_{t1} = \frac{2.854}{383} \approx 0.00745$$

$$\Delta t_2 = \frac{2.488}{343} \approx 0.00725 \text{ s}$$

$$t_1' = t_1 + \Delta t_1; \quad t_1' = 9.786 + 0.065 = 9.723 \text{ (c)}$$

$$t_2' = t_2 + \Delta t_2; \quad t_2' = 9.789 + 0.003 = 9.792 \text{ (s)}$$

Оценка следует, что ~~результат не~~ ^{результат не} ~~изучения~~, 1-ый
фигурировал Иванов

Омбсман: Док. Тезисаман ман ха
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Zagora 502

Dano:

$$H = 3.2 \text{ m}$$

$$h = 1.8 \text{ m}$$

$$v_0 = 0$$

$$u_1 = 1.5 \text{ m}$$

a-7

Решение

$$AB = 21$$

$$E_F = h$$

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$$D = AD - EF$$

$$A1) = 3.2 - 1.8 = 1.4 \text{ (m)}$$

$$\frac{EL}{DF} = \frac{EF}{AD} = \frac{FC}{AF}$$

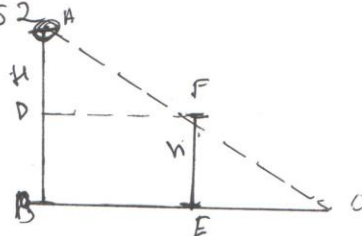
$$\frac{1.2}{1.4} = \frac{1.2}{1.4}$$

$$D_8 x = 2.52$$

$$x = 1.4 \text{ (m)}$$

Omben: 0.9 m/c^2 $\text{Hf} = 8 \text{ E}$

$$BC = BE + EC, \quad BC = 1.8 + 1.4 = 3.2 \text{ (m)}$$



$$a = \frac{v_1^2}{2s} = \frac{v_1^2}{2 \frac{s}{v_1}} = \frac{a \cdot v_1^2}{2s} = \frac{v_1^3}{2s}$$

$$\alpha = \frac{(4.51)^3}{2.452} = \frac{3.375}{3.04} = 0.462$$

$$Ac = S$$

$$AC^2 = BA^2 + BC^2$$

$$AC = \sqrt{B \cdot 25^2 + (3.2)^2} = \sqrt{0.29 + 10.24} = \sqrt{10.53} \approx 3.24 \text{ (m)}$$

A-30

Dik: =

$$d = 12 \text{ cm} = 0.12 \text{ m}$$

$$J = 0.42 \text{ mm} = 4.2 \cdot 10^{-4} \text{ m}$$

$$C_{M1} = 896 \text{ J} \cdot \text{kg}^{-1} \cdot \text{K}^{-1}$$

$$g = 2700 \text{ m} \cdot \text{s}^{-2}$$

$$L = 84 \text{ cm} = 0.84 \text{ m}$$

$$\alpha = 33^\circ$$

$$m_1 = 120 \text{ g} = 0.12 \text{ kg}$$

z-?

3. agenda No 3

Penyelesaian

$$Q = c \cdot \rho \cdot J \cdot L$$

$$M = g \cdot V = g \cdot \rho \cdot J \cdot L$$

$$M = 2700 \cdot (0.12)^2 \cdot 4.2 \cdot 10^{-4} = 0.161 \text{ kg}$$

$$E = mgh = 0.12 \cdot 10 \cdot 78 = 93.6 \text{ (J)}$$

$$Q = \frac{E}{2} = \frac{93.6}{2} = 46.8$$

$$\Delta t = \frac{2em}{\rho} ; \Delta t = \frac{2 \cdot 896 \cdot 0.12}{46.8} = 66^\circ \text{C}$$

Jawab: 66°C

3. agenda No 4

Dik: =

$$M = 2 \text{ m}$$

$$m = 5 \text{ m}$$

$$S = 0.20 \text{ m}^2$$

$$g = 1000 \text{ kg} \cdot \text{m}^{-3}$$

$$k = 2.0 \text{ kN} \cdot \text{m}^{-1} = 2.0 \cdot 10^3 \text{ N} \cdot \text{m}^{-1}$$

$$x = 1$$

T-?

Penyelesaian

$$F_T = M \cdot g$$

$$F_T = T_1 ; F_A = F_1 ; g \cdot V = m \cdot g$$

$$T = 2 \pi \sqrt{\frac{L}{g}} = 2 \pi \sqrt{\frac{1}{1000}}$$

$$V = \frac{m}{\rho} ; V = \frac{5}{1000} = 5 \cdot 10^{-3} \text{ m}^3$$

$$x = \frac{m \cdot g}{k} ; x = \frac{5 \cdot 10 \cdot 0.20}{2 \cdot 10^3} = 5 \cdot 10^{-3} \text{ (m)}$$

$$T = 2 \cdot 3.14 \sqrt{\frac{2 \cdot 10}{2 \cdot 10^3}} = 6.28 \cdot \sqrt{10^{-3}} = 6.28 \cdot 0.0316 = 0.25 \text{ (s)}$$

Jawab: 0.25 s

3. agenda No 5

Dik: =

$$R = 1 \text{ k} \Omega$$

Hitunglah R_x

Penyelesaian:



$$S = 100 \mu$$

$$t_1 = 9.787 \text{ c}$$

$$t_2 = 9.784 + 0.005 \text{ c} = 9.789 \text{ c}$$

$$d = 1.22 \mu$$

$$u = 343 \text{ m/s}$$

$$l_1 = d$$

$$l_2 = 4.6$$

$$l_3 = 4.6$$

$$d_n = d_1 + (n-1)d$$

$$d_4 = 1.22 + (4-1) \cdot 1.22 = 1.22 + 3 \cdot 1.22 = 4.88 \mu \text{ — guma orano } l_1 \text{ go } l_7$$

$$l_7 = 1.22 + (7-1) \cdot 1.22 = 8.54 \mu \text{ — guma orano } l_1 \text{ go } l_7$$

$$\Delta t_{12} = \frac{u}{c} \cdot \Delta l_1 = \frac{343}{300000000} \cdot 8.54 = 0.00095$$

$$\Delta t_{12}' = \frac{2.24306}{343} = 0.00654$$

$$t_1' = t_1 + \Delta t_{12}$$

$$t_1' = 9.787 + 0.00095 = 9.78795$$

$$t_2' = t_2 - \Delta t_{12} = 9.789 - 0.00095 = 9.78805$$

$$t_2' = 9.78805 + 0.00095 = 9.789$$

$$v_1 = \frac{S}{t_1} ; v_1 = \frac{100}{9.787} = 10.217 \text{ m/s}$$

$$v_2 = \frac{S}{t_2} ; v_2 = \frac{100}{9.789} = 10.215 \text{ m/s}$$

$$v_1 = 10.217$$

$$v_2 = 10.215$$

$$\frac{v_1}{v_2} = \frac{10.217}{10.215} = 1.000196$$