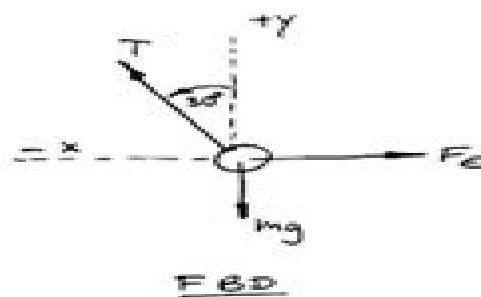
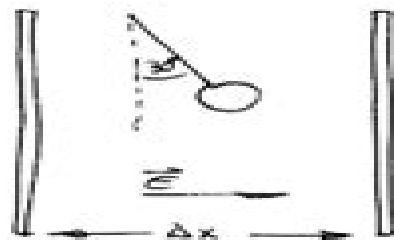


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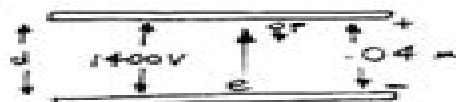


$$\begin{aligned}
 m &= 3.2 \times 10^{-3} \text{ kg} \\
 \Delta x &= 5.0 \times 10^{-2} \text{ m} \\
 q &= 5.80 \times 10^{-6} \text{ C}
 \end{aligned}$$

$$\begin{aligned}
 \sum F_y = 0 &\Rightarrow T \cos \theta - mg = 0 \\
 \sum F_x = 0 &\Rightarrow -T \sin \theta + F_e = 0
 \end{aligned}
 \quad \left. \vphantom{\begin{aligned} \sum F_y = 0 \\ \sum F_x = 0 \end{aligned}} \right\} F_e = mg \tan \theta$$

$$\begin{aligned}
 F_e &= qE \quad \text{so} \quad E = \frac{mg \tan \theta}{q} \\
 E &= \frac{\Delta V}{\Delta x} \quad \text{so} \quad \Delta V = \frac{mg \tan \theta}{q} \Delta x = 1.56 \times 10^2
 \end{aligned}$$

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$$\begin{aligned}
 a_p &= \frac{F}{m} = \frac{qE}{m} \\
 a_p &= \frac{qE}{m_p}, \quad a_e = \frac{qE}{m_e} \\
 \text{so} \quad \frac{a_p}{a_e} &= \frac{m_e}{m_p}
 \end{aligned}$$

$$\begin{aligned}
 a) \quad \Delta y &= \frac{1}{2} a t^2 \\
 \Delta y_p &= \frac{1}{2} a_p t^2, \quad \Delta y_e = \frac{1}{2} a_e t^2
 \end{aligned}$$

$$\begin{aligned}
 \frac{\Delta y_p}{\Delta y_e} &= \frac{a_p}{a_e} = \frac{m_e}{m_p} \\
 \Delta y_p + \Delta y_e &= d \quad \text{so} \\
 \Delta y_p + \Delta y_p \frac{m_p}{m_e} &= d \quad \text{AND} \quad \Delta y_p = \frac{d}{1 + \frac{m_p}{m_e}} = 2.17 \times 10^{-5} \text{ m}
 \end{aligned}$$

$$b) \quad \frac{V_p}{V_e} \cdot V_p^2 = 2a_p \Delta y, \quad V_e^2 = 2a_e \Delta y$$

$$\frac{V_p}{V_e} = \sqrt{\frac{2a_p \Delta y}{2a_e \Delta y}} = \sqrt{\frac{a_p}{a_e}} = \sqrt{\frac{m_e}{m_p}} = 42.9$$

$$c) \quad \frac{KE_p}{KE_e} = 1 \quad (KE_p = KE_e \text{ BECAUSE THEY SUFFER THE SAME POTENTIAL ENERGY CHANGE: } q \Delta V.)$$

# Fundamentals Of Physics Chapter 24 Solutions

**Roman Wölfel**



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