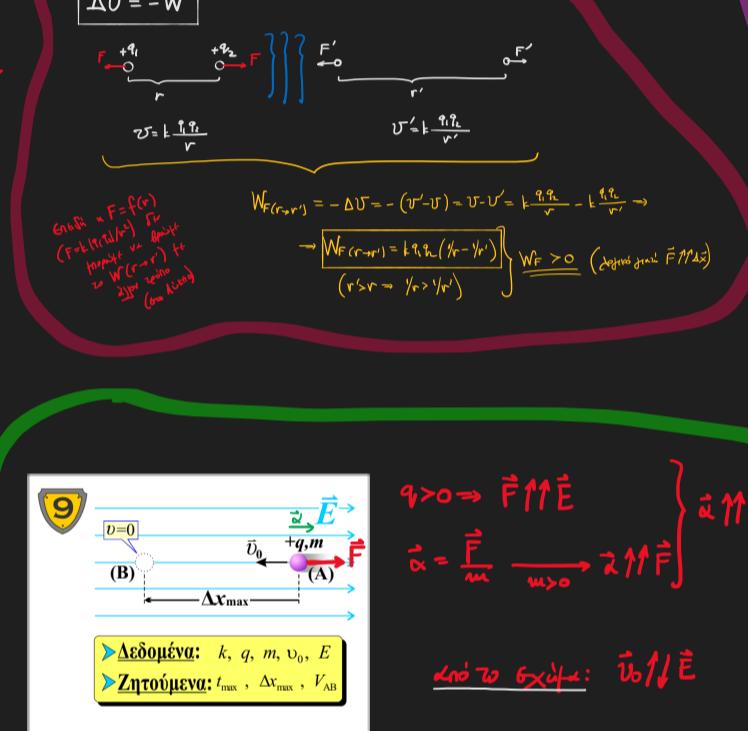


Τριτού Σεμαντικού  
B+2



Σύστημα Έργους ή Διαφορικών Δυνάμεων  
του ΟΗΟΡΑΝΕΙ ΗΛ. ΠΕΔΙΟ

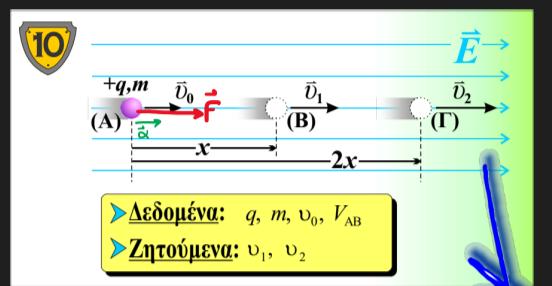
$$\vec{E} = \frac{\vec{F}}{q} \quad [E]_{SI} = 1 \frac{\text{Volt}}{\text{m}}$$

$$(V = V_A - V_B) \rightarrow V: \text{Διαφορικός υψηλός και των φορών των διαφορών (} A \rightarrow B \parallel E\text{)}$$

$$q > 0 \Rightarrow \vec{F} \parallel \vec{E} \quad / \quad E = 6 \text{ Volt} \Rightarrow F = q \cdot E = 6q$$

$$\vec{F} \parallel \vec{AB} \rightarrow W_{F(A \rightarrow B)} = +F(AB) \cdot (A \rightarrow B) \quad \left\{ \Rightarrow F \cdot (AB) = q \cdot V_{AB} \Rightarrow E \cdot V_{AB} = q \cdot V_{AB} \Rightarrow E = \frac{V_{AB}}{(AB)} \right. \sim \left. E = \frac{V}{\ell} \right.$$

$$W_{F(A \rightarrow B)} = q \cdot V_{AB} \quad (B \wedge Q \rho)$$



$$q > 0 \Rightarrow \vec{F} \parallel \vec{E} \quad \left\{ \begin{array}{l} \vec{F} \parallel \vec{E} \\ \vec{F} = \frac{\vec{F}}{m} \xrightarrow{m > 0} \vec{F} \parallel \vec{F} \end{array} \right\} \vec{F} \parallel \vec{E}$$

$$\vec{v}_0 \parallel \vec{E}$$

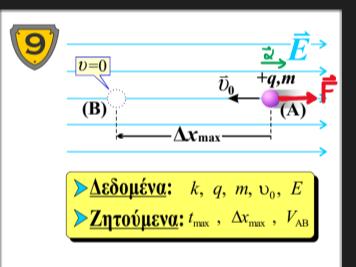
$$\vec{v}_1 \parallel \vec{v}_0 \rightarrow \vec{v}: \text{επιτάχυνση}$$

$$\left. \begin{array}{l} \vec{E} \parallel \vec{E} \\ \vec{v} = \vec{v}_0 + \vec{a}t \\ \Delta x = v_0 t + \frac{1}{2} a t^2 \end{array} \right\} \alpha = \frac{F}{m} = \frac{E \cdot q}{m} = 6 \text{ Volt}$$

$$v = v_0 + at$$

$$\Delta x = v_0 t + \frac{1}{2} a t^2$$

To be continued...



$$q > 0 \Rightarrow \vec{F} \parallel \vec{E} \quad \left\{ \begin{array}{l} \vec{F} \parallel \vec{E} \\ \vec{F} = \frac{\vec{F}}{m} \xrightarrow{m > 0} \vec{F} \parallel \vec{F} \end{array} \right\} \vec{F} \parallel \vec{E}$$

$$\vec{v}_0 \parallel \vec{E}$$

$$\bullet E = \frac{F}{m} = \frac{F \cdot q}{m} \quad (E = \frac{F}{|q|})$$

$$\bullet v = v_0 - \alpha t \xrightarrow{v=0} 0 = v_0 - \alpha \cdot t_{max} \rightarrow \alpha \cdot t_{max} = v_0 \rightarrow t_{max} = \frac{v_0}{\alpha} = \frac{v_0}{\frac{E \cdot q}{m}} \Rightarrow t_{max} = \frac{m v_0}{E \cdot q}$$

$$\bullet \Delta x = v_0 t - \frac{1}{2} \alpha t^2 \Rightarrow \Delta x_{max} = v_0 \cdot t_{max} - \frac{1}{2} \alpha t_{max}^2 \Rightarrow \Delta x_{max} = v_0 \cdot \frac{v_0}{\alpha} - \frac{1}{2} \alpha \frac{v_0^2}{\alpha^2} = \frac{v_0^2}{\alpha} - \frac{1}{2} \frac{v_0^2}{\alpha} \Rightarrow \Delta x_{max} = \frac{v_0^2}{2 \alpha} \Rightarrow \Delta x_{max} = \frac{m \cdot v_0^2}{2 E \cdot q}$$

$$\bullet E = \frac{V}{\ell} \sim E = \frac{V_{BA}}{|BA|} \Rightarrow V_{BA} = E \cdot |BA| \Rightarrow V_{AB} = -E \cdot |BA| \xrightarrow{|BA| = \Delta x_{max}} V_{AB} = -E \cdot \frac{m \cdot v_0^2}{2 \cdot E \cdot q} \Rightarrow V_{AB} = -\frac{m \cdot v_0^2}{2 q}$$