$$= \sum_{m \neq 0} M = \frac{1}{2} m v_0^2 - \frac{1}{2} k d^2 = 0,23$$

$$= m q (s+d)$$

2)
$$x = ct^{3} = 3ct^{2} = 3ct^{2} = 3ct^{2} = 5ct^{2}$$

conditione alleys Ti

$$Q_0 = Q_{\overline{c}}$$
 =) $V_1 = \sqrt{12 c v_1} =$ $V_2 = (12 c R^2) \frac{1}{3} = 0,039 m_s$

$$T_{1} = \sqrt{\frac{\sigma_{1}}{3c}} = \left(\frac{12cR^{2}}{27c^{3}}\right)^{\frac{1}{6}} = \left(\frac{4}{9}\frac{R^{2}}{c^{2}}\right)^{\frac{1}{6}} = 2,075$$

$$E = \frac{\sigma}{2\xi} \left(1 - \frac{2}{\left(2^2 + R^2\right)^{\frac{1}{2}}} \right)$$

Ponends una siema carica junifere Q a distanted. LR sull'ane il cany si annellere sel jents 2=2R jer la conditione

$$\frac{Q}{2\pi \varepsilon_0 R^2} \left(1 - \frac{2}{2^2 R^2} \right) = \frac{Q}{4\pi \varepsilon_0} \propto^2 R^2$$

$$\left(1 - \frac{2R}{(4R^2+\Lambda^2)^{\frac{1}{2}}}\right) = \frac{1}{2\lambda^2} \implies \lambda = \sqrt{\frac{\sqrt{5}}{2(\sqrt{5}-2)}} = \frac{2}{176}$$

Forza rensiente

$$=\int_{v_0}^{v} dv = -\left(\frac{B^2 v^2}{mR}\right) dx = \int_{0}^{v_0} S = \frac{mR}{B^2 v^2} \left(\frac{v_0 - v}{v_0}\right)$$