

R (27,- a, cos e)

(a2+R2-29R coso)32

R-Q C63

e(x) =(x/)2+1  $\in (x)$ Ē en (x1>01 = 0 D.da = Quibre = TA EWEN E ON = E = O = E = D  $\mathcal{C}(x)$  $\vec{E}(x) = - \nabla \left[ (\frac{x}{a})^2 + 1 \right] \hat{x}$ El petencial: V(x) = = (x É. dí); dí = dx î [(x)2+1/dx = 5 1(x) = 0 4€0  $V(x) = \frac{\sigma}{4\epsilon_0} \left[ \frac{x^3}{3\alpha^2} + x + \frac{\alpha^3}{3\alpha^2} + \alpha \right] = \frac{\sigma}{4\epsilon_0} \left[ \frac{x^3}{3\alpha^2} + x + \frac{\alpha^3}{3\alpha^2} + \alpha \right] = \frac{\sigma}{3\alpha^2}$  $V(x) = 0 | x^3 + x + 0d$   $U(x) = 0 | 3d^2 + 360$ podemos calcular o considerando que V(d) = V0 Vo = 7 | d + d | + od = 27d 460 3 + d | + od = 27d

T = 360. No. -360Vo EI Vector polarización D= eo2 + P= 460 2 (x)2+1  $\vec{P} = \left(\frac{3 - \left(\frac{x}{d}\right)^2}{1 + \left(\frac{x}{d}\right)^2}\right) \in \vec{E} = \left(3 - \left(\frac{x}{d}\right)^2\right) \in \vec{O} \cdot (-\sigma) \left(\left(\frac{x}{d}\right)^2 + 1\right) \hat{\chi}$  $\hat{P} = - \sqrt{(3 - (\frac{x}{a})^2)} \hat{x} = - \frac{3\epsilon_0 V_0}{2d} (3 - (\frac{x}{a})^2) \hat{x}$ 3 Eo Vo (3 - (2) ] 2 czress de Polarización 125 Pp = - ₹.P = 36.V3 d (3-(x))3] Sp = - 360/0. 2x = - 360/0 x 8d d2 4d3

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