





1-1-2 证明: dq=Po YAT''dr' 取厚度为di'肝带电弹壳.

$$d\vec{E}_{\cdot} = \frac{\rho_{0} v_{0} r' dr'}{v_{0} \epsilon_{0} r'} \vec{e}_{r}$$

$$\vec{E}_{\cdot} = \vec{e}_{1} \frac{\rho_{0}}{\epsilon_{0} r'} \int_{0}^{r} r'' dr' = \frac{\rho_{1}}{3\epsilon_{0}} \vec{e}_{r}$$

由图.取X=0平面为电话考点

$$\frac{\psi(x,y) = \frac{\tau}{2\pi\epsilon_0} \ln \frac{\sqrt{\mu+\eta^2+y^2}}{\sqrt{(x-d)^2+y^2}}}{\sqrt{(x-d)^2+y^2}} = \lim_{x \to \infty} \frac{(x-\frac{c^2+1}{c^2-1})^2 + y^2 = (\frac{2dC}{c^2-1})^2}{(\frac{c^2-1}{c^2-1})^2}$$

$$6n = \vec{P} \cdot \vec{e}_n \Big|_{Y=a} = \frac{(\xi - \xi_0) q}{y_{\pi} \xi_Y}$$

$$1-2-3$$
. $\bar{\xi}=\frac{1}{2\pi \epsilon r}$

$$V = \int_a^b E dr = \frac{t}{2\pi \epsilon} \ln \frac{b}{a}$$

$$\frac{du}{da} = \frac{7}{2\pi \xi a} \left[\ln \left(\frac{b}{a} \right) - 1 \right] = 0$$

$$\frac{dU}{da} = \frac{7}{2\pi \xi a} \left[\ln \left(\frac{b}{a} \right) - 1 \right] = 0$$

$$\frac{dP}{da} = \frac{b}{e} = 0.73b \text{ cm} \qquad U_{\text{max}} = \frac{7}{2\pi \xi} \ln \frac{b}{a} = 1.47 \times 10^5 \text{ V}$$

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