Electromagnetics Se 12 Dr. Rajayi

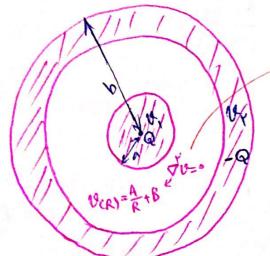
خازل كا ولوت :

$$\frac{Q}{\sqrt{4\pi\epsilon_0 a}} = V_0 = > \frac{Q}{V_0} = \sqrt{4\pi\epsilon_0 a}$$

$$\frac{e^{iJ_{3}C}}{R^{i}J_{5}J_{5}} = \frac{aU_{0}}{R} \Rightarrow E = \frac{aU_{0}}{R^{i}} = \frac{f_{5}}{E_{0}} \Rightarrow f_{5} = \frac{aU_{0}E_{0}}{a^{i}} = \frac{U_{0}E_{0}}{a}$$

$$\frac{e^{iJ_{3}C}}{R^{i}J_{5}J_{5}} = \frac{aU_{0}E_{0}}{R^{i}J_{5}J_{5}} = \frac{aU_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{aU_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}J_{5}} = \frac{u_{0}E_{0}}{a^{i}J_{5}} = \frac{u_{0}$$





$$\frac{A}{a} + B = V,$$

$$= > N, -V_Y = A\left(\frac{1}{a} - \frac{1}{b}\right)$$

$$\frac{A}{b} + B = N_Y$$

(2)0):
$$\int_{a}^{b} \frac{Q}{FTE_{0}R'} dR = U_{1} - U_{Y} = > \frac{Q}{FTE_{0}} \left(\frac{1}{a} - \frac{1}{b}\right) = U_{1} - U_{Y}$$

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$$\frac{1}{2}\frac{q_{VR}}{q_{VR}} - \int_{\infty}^{R_{V}} \frac{1}{q_{V}} \left[v(R_{V}) - v(\infty) \right] = \frac{q_{V}q_{V}}{r_{VR}}$$

$$= \frac{1}{2}\frac{q_{V}}{r_{VR}} \left[v(R_{V}) - v(\infty) \right] = \frac{q_{V}q_{V}}{r_{VR}}$$

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$$\frac{\text{SINDSJOINTE}}{\text{FITE IR}_{i}-\text{Right}} = \frac{1}{V} \sum_{i=1}^{N} \frac{4i}{j=1} \frac{4j}{\text{FITE IR}_{i}-\text{Right}} = \frac{1}{V} \sum_{i=1}^{N} \frac{4j}{\text$$

$$= \bigvee_{i=1}^{N} \frac{1}{q_i U_i(R)}$$

(Sir)

1 v, Sps, ds, - 1 v, Sps, dsy = 1/2 v, Q - 1/2 v, Q

(3) 1/2 v, Sps, ds, - 1/2 v, Sps, dsy = 1/2 v, Q - 1/2 v, Q = (1, -12) 1/4 C(1, -12,) 1/4 P O $=\frac{\varepsilon_{0}}{2}\int_{V'}\nabla \cdot (v\vec{\epsilon})dv + \frac{\varepsilon_{0}}{2}\int_{V'}\vec{\epsilon}\cdot\vec{\epsilon}dv = \frac{\varepsilon_{0}}{2}\int_{S}v\vec{\epsilon}\cdot d\vec{s} + \frac{\varepsilon_{0}}{2}\int_{V'}\vec{\epsilon}\cdot\vec{\epsilon}dv = \frac{\varepsilon_{0}}{2}\int_{V'}\vec{\epsilon}dv = \frac{\varepsilon_{0}}{2}\int_{V'}\vec{\epsilon}dv = \frac{\varepsilon_{0}}{2}\int_{V'}\vec{\epsilon}dv = \frac{\varepsilon_{0}}{2}\int_{V'}\vec{\epsilon}dv = \frac{\varepsilon_{0}}{2}\int_{V$ E. Ju, E. Edo (12-5, 12-E, 12-order, 14 Up 200 (12) * Scanned by CamScanner