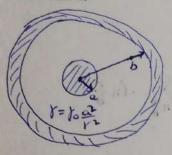
Aoxyon 1



Apa,
$$V = \int_{a}^{b} E dr = \frac{I}{4\eta k a^{2}} (b-a)$$
 onor $R = \frac{V}{I} = \frac{b-a}{4\eta k a^{2}}$

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onone
$$b = \frac{V}{b-a}(b-r)$$

$$I = \int Jds = \int \frac{d^2Vr^2}{(b-a)^2} \sin\theta d\phi = \frac{4\pi y_0 e^2V}{b-a}$$
onor $k = V = \frac{b-a}{4ny_0 e^2}$

For
$$\xi(r) = \frac{\xi_0 a^2}{r^2}$$
, where $\frac{\xi(r)}{f(r)} = \frac{\xi_0}{f_0} = 0$.

a).
$$\nabla^2 \Phi = 0$$
 $\sigma \in i_{\infty}$ vor a funço

$$\phi(a)=V \Rightarrow C_1 \ln a + C_2=V \Rightarrow C_1=-\frac{V}{\ln b}$$

$$\frac{\partial}{\partial r} \left(r \frac{\partial}{\partial r} \right) = 0 \Rightarrow r \frac{\partial}{\partial r} = (4 \Rightarrow \Phi(r) = (4 \ln r)$$

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$$\vec{J} = \begin{cases} \frac{di \vee 1}{ln \cdot n} \cdot \frac{1}{r} \hat{r} \\ \frac{di \vee 1}{ln \cdot n} \cdot \frac{1}{r} \hat{r} \end{cases}$$

$$J$$
οχύει, $\nabla \cdot (ε_1 \nabla φ_1) = ρ_1$ νόι $\nabla (ε_2 \nabla φ_2) = ρ_2$

$$\nabla^2 \Phi_1 = \frac{\rho_1}{\xi_1}$$

$$\nabla^2 \Phi_2 = \frac{\rho_2}{\xi_2}$$

$$0 = \frac{\rho_2}{\xi_1}$$

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vandont int

 $\Rightarrow \phi(r) = -\frac{V}{\ln \frac{r}{b}} \cdot \ln \frac{r}{b}$

Today Transfer and and

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Tought, Sinth the E. S. A.

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come of a first season of consider with

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$$\sigma_{1} = (\overline{D} - \overline{D}_{1}(b)) \cdot \hat{r} = -\frac{\epsilon_{1} V}{\ln \frac{1}{2}} \cdot \frac{L}{b}$$

$$P) \cdot R^{H} = \frac{V}{I^{H}}$$

$$I^{H} = \int_{0}^{n} J_{1} \cdot r \cdot d\varphi + \int_{0}^{2n} J_{2} \cdot r d\varphi = \frac{(f_{1} + f_{2})V_{1}}{\ell_{n} \frac{b}{q}}$$

Oniose
$$R^{h} = \frac{\ln \frac{b}{a}}{(f_{1}+f_{2}) \cdot n}$$

Aoryon 3 (10.21)

'Apa
$$\frac{\partial^2 \phi}{\partial z^2} = 0 \Rightarrow \phi(z) = (17 + (2))$$

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'Apa,
$$I = \oint \overline{J} \cdot d\overline{s} = \iint J_{\overline{z}} dxdy = \frac{d \cdot (-v)}{h} (a_{J_1} + (b-a)_{J_2} + (c-b)_{J_3})$$

Only
$$R = \frac{(-v)}{I} = \frac{h}{d(a_{J_1} + (b-a)_{J_2} + (c-b)_{J_3})}$$

B)
$$Ia$$
 $f_2 = \frac{f_0 \times}{a}$, λ_{sym} for a $\delta(u_0)$ v_0 v

$$I = \oint \vec{J} \cdot d\vec{s} = \frac{d(-v)}{h} \left(\int_{a}^{a} \int dx + \int_{a}^{b} \int dx + \int_{b}^{c} \int dx \right) = 0$$

$$\exists I = \frac{d(-v)}{h} \left(a f_1 + \frac{b^2 - a^2}{2a} \cdot f_0 + (c-b) f_3 \right)$$

Onore
$$R = \frac{h}{d(a_{fa} + b^2 - a^2 + (c-b)t_3)}$$