

Riapar. T))d.) R2-R1= d050

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어망해 성정.
$$(y=-2)$$
은 만동나 선생다.

$$E_{-pl} = \frac{pl}{2\pi\epsilon_{0.2}} (-aly)$$

(1).
$$r = 0$$

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$$|r=0|$$
 $|r-r|=-2\alpha y$. $|r-r|=-2\alpha y$. $|r-r|=-2\alpha y$.

$$||r-|r'|| = 2$$
.

$$|r=0|$$
 $|r-1|_{2}=2a_{1}y$
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 $E = \frac{l_2(-20ly)}{2\pi \epsilon_{11} \cdot 4}$

$$E = E_1 + E_2 = \frac{(1(-204))}{727.4} - \frac{(1(-204))}{276.4}$$

$$= \frac{-\int u dy}{4\pi \varepsilon} - \frac{\int u dy}{4\pi \varepsilon}$$

(2).
$$D = \xi E_1 + \xi_0 E_2 = -\frac{f_2}{4\alpha} a_y \cdot 2 = -\frac{f_2}{2\alpha} a_y$$
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py. 7571322



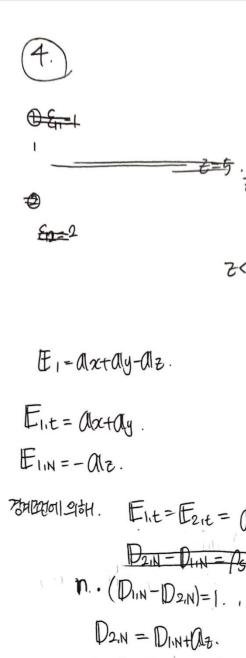
$$V = -\int_{\alpha}^{\alpha} E \cdot dL = -\int_{\alpha}^{\alpha} \frac{1}{z \rho} d\rho \cdot \rho \cdot d\rho d\rho = \int_{0}^{\alpha} \frac{1}{z} d\rho = \frac{\pi}{z}$$

(2) I=
$$\int J \cdot dS = \int J \cdot E dS = \int J \cdot \frac{1}{2\rho} dy dy dpdz$$

$$= \frac{1}{2} \int_{0}^{d} \int_{a}^{b} \frac{1}{\rho} d\rho dz.$$

$$= \frac{\sigma}{2} d \cdot \ln \frac{b}{a} = \frac{\sigma}{2} d \ln \frac{b}{a}$$

(3).
$$R = \frac{V}{I} = \frac{\frac{\pi}{2}}{\frac{2}{2} d \ln \frac{b}{\alpha}} = \frac{\pi}{\partial d \ln \frac{b}{\alpha}}$$



D11N-D2N =1.

$$E_{1}=a_{1}x+a_{2}y-a_{1}z.$$

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$$E_{1}=e_{1}x+a_{2}x+a_{2}y-a_{2}z.$$

$$E_{1}=e_{1}x+a_{2}x+a_{$$

 $D_{1N} - U_{2N} = -U_{1\overline{0}}.$ $D_{2N} = D_{1N} + A z =$ $2E_{0}E_{2N} = E_{0}E_{1N} + A z = (1-E_{0})A z.$ $P_{2} = E_{0}(2+1)E_{2}$ $P_{3} = E_{0}(Ax + Ay + \overline{ZE_{0}}Ay)$

: D2=280 (alx+aly+ + 80 alz)

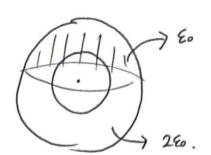
DIN-D2N=-AZ. EIN=-AZ

E2= Eze+ Ezn = alx+aly + 1-80 alz.

@ En=2.

Den=

7면 5 M 2 M 2 Vo.



$$\nabla^2 V = \frac{1}{F^2} \frac{\partial}{\partial r} (r \frac{\partial V}{\partial r}) = 0$$

$$\frac{\partial}{\partial r}(r^2\frac{\partial V}{\partial r})=0$$
. $r^2\frac{\partial V}{\partial r}=A$. $\frac{\partial V}{\partial r}=\frac{A}{F^2}$. $V_{67}=\frac{A}{F}+B$.

$$V(\alpha) = -\frac{A}{\alpha} + B = V_0$$

$$V(b) = -\frac{A}{b} + B = 0.$$

$$-\frac{A}{a} + \frac{A}{b} = V_0$$

$$-\frac{A}{a} + \frac{A}{b} = V_0$$
 $A(\frac{1}{b} - \frac{1}{a}) = V_0$ $A = \frac{V_0}{\frac{1}{b} - \frac{1}{a}}$

$$\beta = \frac{A}{b} = \frac{V_0}{\frac{1}{b} - \frac{1}{a}} \cdot \frac{1}{b}$$

$$V = -\frac{1}{r} \left(\frac{Vo}{\frac{1}{b} \frac{L}{a}} \right) + \frac{1}{b} \left(\frac{Vo}{\frac{1}{b} \frac{L}{a}} \right)$$

$$=\frac{\sqrt{o}}{\left(\frac{1}{b},\frac{1}{a}\right)}\left(\frac{1}{b},\frac{1}{b}\right).$$

$$= \frac{-V_0}{\left(\frac{1}{b} - \frac{1}{d}\right)} \cdot \left(\frac{1}{F^2}\right) \Omega_{r.} = \frac{V_0}{\frac{1}{d} - \frac{1}{b}} \cdot \frac{1}{F^2} \Omega_{r.}$$

$$D = \mathcal{E}E. = \begin{cases} \mathcal{E}_0 E_0 \leftarrow (0 < 0 < \frac{\pi}{2}) = \begin{cases} \frac{\mathcal{E}_0 V_0}{1 - \frac{\pi}{2}} \cdot \frac{1}{12} \alpha Ir. \end{cases}$$

$$2\mathcal{E}_0 E \leftarrow (\frac{\pi}{2} < 0 < \frac{\pi}{2}). \qquad \frac{2\mathcal{E}_0 V_0}{1 - \frac{\pi}{2}} \cdot \frac{1}{12} \alpha Ir.$$

(3). by. Hallon.



(4)
$$C = \frac{Q}{V} = \frac{P}{V_0}$$
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OPE SAI.
$$\beta a = S = \frac{\epsilon_0 V_0}{\frac{1}{a^2 b^2}} \cdot \frac{1}{a^2} \left(\frac{\pi}{2} \cos(\alpha)\right)$$

$$\left(\frac{2\epsilon_0 V_0}{\frac{1}{a^2 b^2}} \cdot \frac{1}{a^2} \left(\frac{\pi}{2} \cos(\alpha)\right)\right)$$

$$\frac{(3b)}{5b} = \begin{cases}
\frac{\xi_0 V_0}{\frac{1}{a-b}} & \frac{1}{b^2} \left(0 \langle \Theta \langle \frac{\alpha}{2} \rangle\right) \\
\frac{2\xi_0 V_0}{\frac{1}{a-b}} & \frac{1}{b^2} \left(\frac{\alpha}{2} \langle \Theta \langle \alpha \rangle\right)
\end{cases}$$

$$(4). \quad C = \frac{Q}{V} = \frac{\Sigma \rho_s \cdot S}{V_0} = \frac{QQQ}{V_0}$$

$$Q = I / 5 = (\frac{\xi_0 V_0}{\frac{1}{a} - \frac{1}{b}} \cdot \frac{1}{a^2} + \frac{2\xi_0 V_0}{\frac{1}{a} - \frac{1}{b}} \cdot \frac{1}{a^2}) \cdot 2ab^2 - (\frac{\xi_0 V_0}{\frac{1}{a} - \frac{1}{b}} \cdot \frac{1}{b^2}) \cdot 2ab^2$$

$$C = \left(\frac{\xi_0}{\frac{1}{a} - \frac{1}{b}}, \frac{1}{a^2} + \frac{2\xi_0}{\frac{1}{a} - \frac{1}{b}}, \frac{2\pi b^2}{a^2}\right) = \left(\frac{\xi_0}{\frac{1}{a} - \frac{1}{b}}, \frac{1}{6^2}, \frac{1}{6^2}\right) = \frac{2\pi b^2}{a^2} - \frac{1}{a^2} + \frac{2\xi_0}{a^2} + \frac{1}{a^2} + \frac{1}{a$$

$$= \frac{360}{1 - \frac{1}{6}} \cdot 20 - \frac{960 \cdot 20}{0 - \frac{1}{6}} = \frac{6060}{1 - \frac{1}{6}}$$

(5)
$$W = \frac{1}{2} \int_{W_1} D \cdot E \, dV = \frac{1}{2} \int_0^{2\pi} \int_0^{\frac{\pi}{2}} \int_0^{4\pi} \frac{\xi_0 V_0^2}{(\frac{1}{a} - \frac{1}{b})^2} \cdot \frac{1}{14} \cdot r^2 \sin\theta \, dr d\theta d\phi$$

$$=\frac{\tau \xi_0 V_0^2}{\left(\frac{1}{2} - \frac{1}{6}\right)^2} \left(3 \ln \frac{h}{a}\right) = \frac{3 \tau \xi_0 V_0^2}{\left(\frac{1}{4} - \frac{1}{6}\right)^2} \ln \frac{h}{a}$$



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 $\nabla^2 V = 0$.

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$$\frac{1}{\rho^2} \cdot \frac{\partial^2 V}{\partial \phi^2} = 0.$$

$$\frac{1}{\rho^2} \cdot \frac{\partial^2 V}{\partial \phi^2} = 0.$$

$$\frac{2}{\partial \phi^2} = 0. \quad V = A\phi + B.$$

$$E = -\nabla V = -\frac{1}{\rho} \cdot \frac{\partial}{\partial p} \left(\frac{V_0 p}{\partial x} \right) \alpha_p = -\frac{V_0}{\rho d} \alpha_p .$$