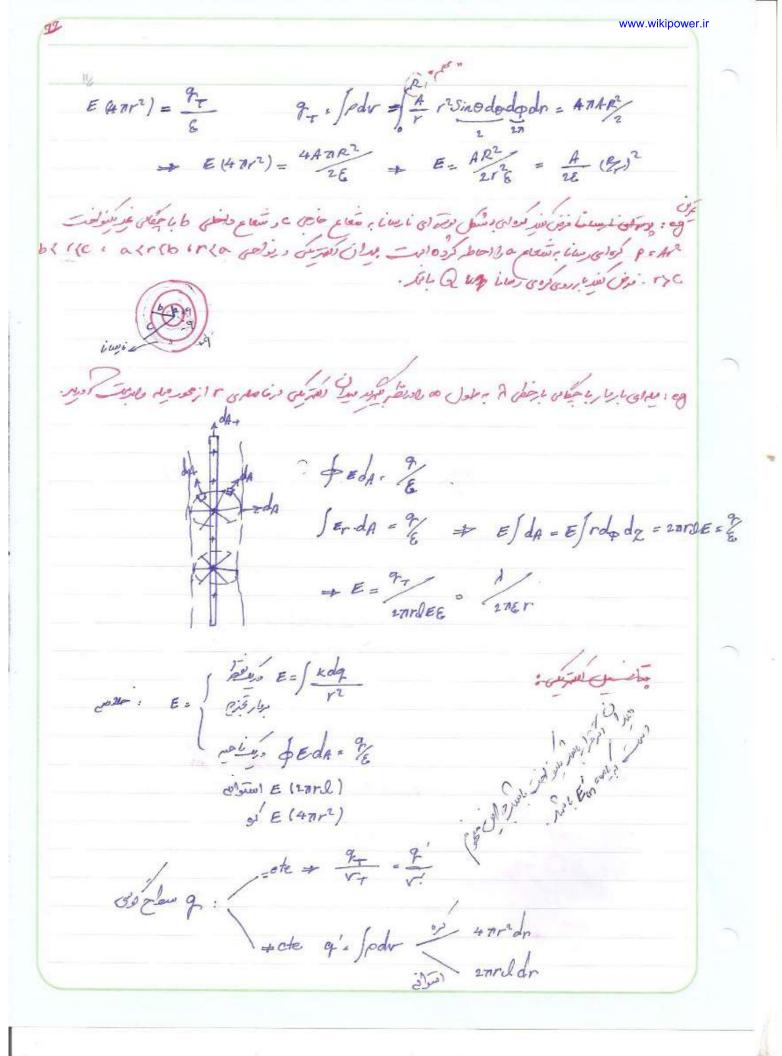
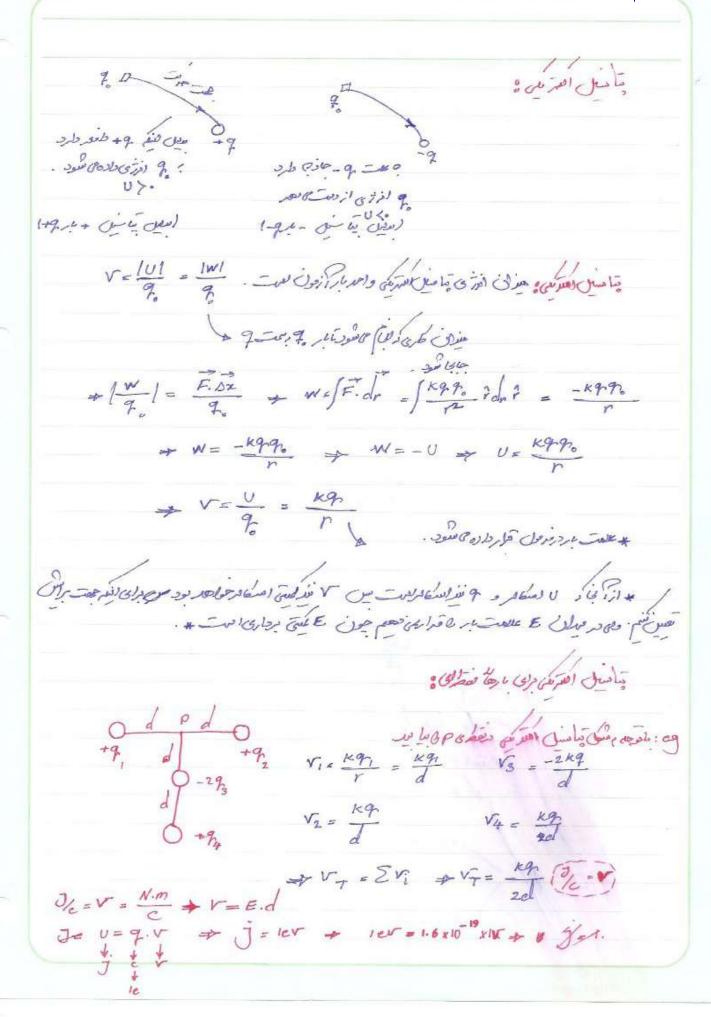


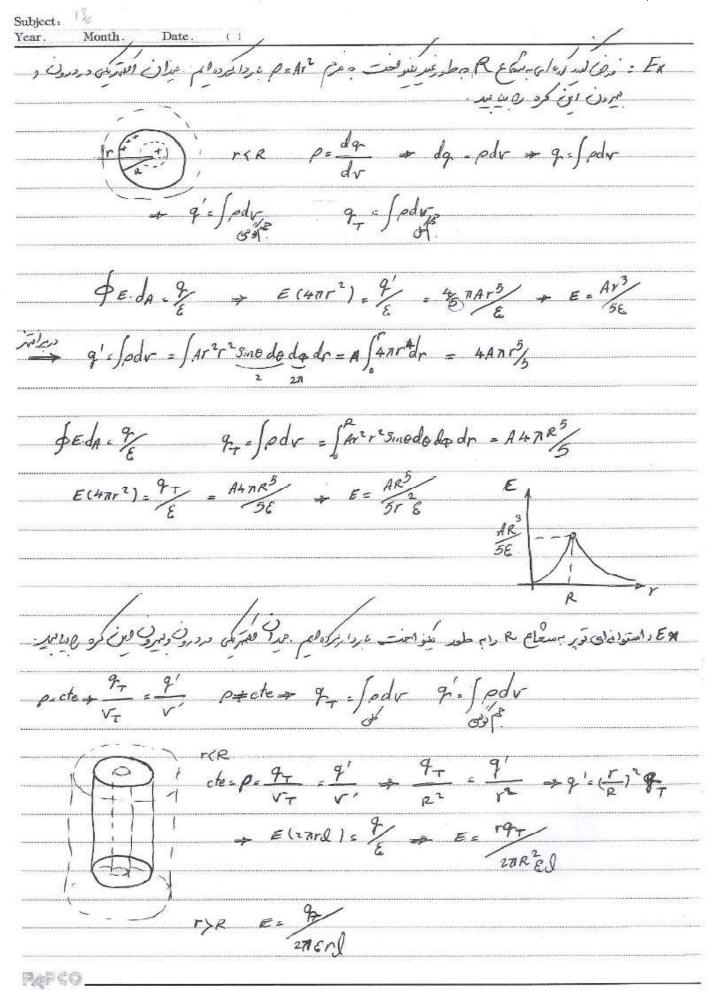
www.wikipower.ir وع: الرور عبر بلواجي به في المواجد وي دي دي دي دي دي وي الم المراج المرابع المواجد المرابع المواجد JE.da = [132i+4j) (-dA i) - [3xdzdy = -3xyz= 36 IND SEDA = [(3xi+4j) dA i = [] 3xdydz = 34236 re SEdf () (8xi+ 4j) dAj = 52 /3 4 dA . 52/34 dadz=26 לתנבל בניבט נשפים יה עם: وع: درسدای ناصانا بسعاع ۶ در حفای در همی ناست م درما درد ایم . سد د افتریکی درداسی و ما جان وایم Ф. E. da. 9 (Erî+ Eq + Eq) . da î = ErdA * I Erda = Ser rasinodo da = 9% Es kg/ ? \$ Er. dA = % = (HAP) Er = Pole

iduolis = = Etar2 = Kp/2

وع : فرض نساره ای در دغیسا ی عدم برجی غدت ، رما رود ای ویک رهدی درداحی ۲۰ م (does by sin junt) = prete \$ Er. da . 9 (5) + E(4712) = 9' (R) P = 97 1 9 die + 97 - 9 - 91 = (%) 97 - 43 183 + 9' = (%) 97 -→ E(4712) 5 (1/R)394 → E= 9067 EA 47126 PLY E(47812) = 97 = 6 = P4,7R وه : فع أنه دواى مور 0 . سفع ع د ع طوي المواحد ع معاد ع ما م دوا م دوا ع de de Edg. Epdr Ida c pour , p=cte 97 = Spdv # 9'= Spdv \$ E. dar of Curo E(4712) = 8 + 9' (pdr =) 1 r2 sino do dop dr = 5 47 Ardr = 47Ar2 → E (4712) = 271 Ar2 = E = A







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	P KR FETA = 9/2
C	$\Rightarrow E(2\pi rQ) = \frac{q'}{\epsilon} \Rightarrow E = \frac{1}{\epsilon}$
	g'= fpdr = ff 27 roldr = 27 Alr
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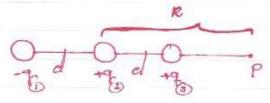
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1.6 × 10 10 j = 1x = 2 × 10 ev

+ 1 mor 2 = K = U + 1 mv2 - 12 mv2 = K + 12 x 1000 x v2 - 2 x 1000

- V2 = 6 110 7



$$V_1 = \frac{-Kq}{R+d}$$

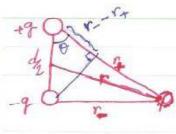
$$V_2 = \frac{kq}{r} \qquad V_{\overline{1}} = \overline{Z}V_1 = \frac{kq}{R-d} + \frac{kq}{R} - \frac{kq}{R+d} = \frac{kq}{R} \left(\frac{1}{15\frac{d}{R}} + 1 - \frac{1}{1+d_R} \right)$$

$$V_{3} = \frac{\kappa q}{R - d} = \frac{\kappa q}{R} \left((1 - \frac{d}{R})^{-1} + 1 - (1 + \frac{d}{R})^{-1} \right) = \frac{\kappa q}{R} \left(1 + \frac{d}{R} + 1 - (1 - \frac{d}{R}) \right)$$

$$= \frac{kq}{R} \left(1 + \frac{2d}{R} \right) = \frac{2kqd}{R^2} + \frac{kq}{R} = \frac{2pdk}{R^2} + \frac{Rq}{R}$$

$$\frac{b^2}{2kq} + \frac{1}{2kq} + \frac{$$

$$\Rightarrow \sqrt{abs} = \frac{2 \kappa \rho_r}{r^2 r} = \frac{2 \kappa \rho_r}{r^3} = \frac{(2 \kappa \rho_r)^{\frac{1}{2}}}{r^3} = \frac{(2 \kappa \rho_r)^{\frac{$$



 $V_{+} = \frac{\kappa q_{+}}{r_{+}}, V_{-} = \frac{\kappa q_{-}}{r_{-}}$

 $V_{\overline{r}} = \frac{kq_{\overline{r}}}{r_{+}} + \frac{kq_{-}}{r_{-}} = \frac{kq}{r_{+}} - \frac{kq}{r_{-}} = kq \left(\frac{r_{-} - r_{+}}{r_{-} r_{+}} \right)$

+ r>>d + 1-r = r2 , r-r+ = d Cor

+ VT = Kgnd Go KPGO KPGO KP.T

العلى المحافظي : معان من المحافظة المحا

1++11++)

P dr = Kdar = Edr - E Kdar

+ Idv = 1 xdq

فزید سال 1391:

F. 49,92 (25)

E = E = K9, 1

 $\int \frac{\vec{F} \cdot d\vec{r}}{q} = \frac{\omega}{q} = V = \frac{U}{q}$

 $\Rightarrow V = \frac{kq}{r} \Rightarrow V = \frac{U}{q} = \int \frac{\vec{F} \cdot dr}{q} = \frac{\int \frac{kq}{r} \cdot dr}{r} = \int \frac{kq}{r^2} dr = \frac{kq}{r} \frac{dr}{r} = \int \frac{kq}{r} dr = \frac{kq}{r} \frac{dr}{r} = \frac{k$

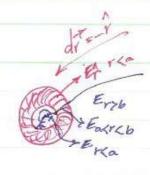
 $V = \frac{\int \vec{F} \cdot d\vec{r}}{q_0} = \frac{q_0}{q_0} = \int \vec{E} \cdot d\vec{r}$

 $V = \int_{r_i}^{r_2} \vec{E} \cdot dr = \int_{\alpha}^{r} \vec{E} \cdot dr = -\int_{r}^{\alpha} \vec{E} \cdot dr$

· Se levile - visa

Vr. - Vr. = Vr.

 $r > b \Rightarrow E = \frac{A(b-a)}{Er^2}$

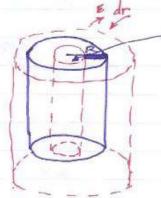


$$V = -\int_{Y}^{\infty} \frac{1}{E} dr = -\int_{E}^{\infty} \frac{1}{E} dr C_{0} = \int_{E}^{\infty} \frac{1}{E} dr$$

$$V = \int_{Y}^{\infty} \frac{1}{E} dr + \int_{E}^{\infty} \frac{1}{E} dr + \int_{E$$

$$\frac{\sqrt{2}}{\sqrt{2}} = \int_{b}^{\infty} \frac{E \cdot dr}{r^{2}b} + \int_{r}^{b} \frac{E dr}{a \times r^{2}b} = \frac{A(b-a)}{Eb} + \frac{A(b-a)}{E} + \frac{aA}{E} \left(\frac{1}{16} - \frac{1}{17}\right)$$

$$\frac{\sqrt{2}}{\sqrt{2}} = \int_{r}^{\infty} \frac{E dr}{a} = \frac{A(b-a)}{Er}$$



$$\oint E \cdot dA = \frac{q}{E} \implies \oint E \cdot 2\pi r d = \frac{q_{in}}{6} = \frac{\int_{i}^{r} \rho dv}{6}$$

$$\Rightarrow E \cdot 2\pi r d = \frac{\rho \pi r^{2} d}{6} \implies F = \frac{\rho r}{r < R} = \frac{\rho r}{26} \implies F = \frac{\rho r^{2}}{r < R}$$

$$\int_{i}^{R} \rho dv = \frac{\rho \pi r^{2} d}{6} = \frac{r}{2\pi r d} \implies E = \frac{\rho R^{2}}{r < R}$$

 $V_{s} - \int_{1}^{\infty} E \cdot dr \, C_{0} \, 180 = \int_{r}^{\infty} E \, dr \, \int_{R}^{\infty} E \, dr \, 4 \int_{r}^{R} \frac{E \cdot dr}{200} \, dr$ $V_{s} \int_{R}^{\infty} \frac{\rho R^{2}}{2r_{0}^{2}} \cdot dr + \int_{r}^{R} \frac{\rho r}{26} \, dr = \frac{\rho R^{2}}{2E} \frac{Lnr}{n} \Big|_{R}^{\infty} + \frac{\rho r^{2} \Big|_{R}^{R}}{4E} \Big|_{R}^{\infty} = \frac{-\rho R^{2}}{2RE} + \frac{\rho (R^{2} - r^{2})}{4E}$

 $\frac{d}{dr}\left(\mathbf{r} = \int_{\mathbf{r}}^{\mathbf{r}} d\mathbf{r}^{2}\right) \Rightarrow \frac{d\mathbf{r}}{d\mathbf{r}} = \mathbf{E}\hat{\mathbf{r}}$ $\frac{d\mathbf{r}}{d\mathbf{r}} = \mathbf{E}\hat{\mathbf{r}} \cdot \frac{d\mathbf{r}}{d\mathbf{r}} = \mathbf{E}\hat{\mathbf{r}}$

in the kar

W-V-V-V

: com woin

 $W = \int_{r}^{R} \int_{r}^{R} dr = \int_{r}^{R} \frac{k\eta \eta_{2}}{r^{2}} i dr i \qquad |V| = \int_{r}^{R} \int_{r}^{R} dr i \qquad |V| = \int_{r}^{R} \int_{r}^{R} dr i \qquad |V| = \int_{r}^{R} \int_{r}^{R} \int_{r}^{R} dr i \qquad |V| = \int_{r}^{R} \int_{r}^{R} \int_{r}^{R} \int_{r}^{R} dr i \qquad |V| = \int_{r}^{R} \int_{r}^{R}$

 $\frac{199009-9}{7} = \frac{k9192}{r} + \frac{k9193}{r} + \frac{k9194}{r} + \frac{k9293}{r} + \frac{k9394}{r} + \frac{k9294}{r} + \frac{k9294}{r$

