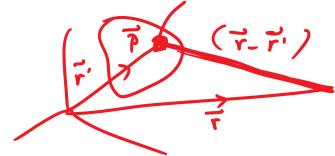


P: diple moment / wit volume

$$V = \frac{1}{4\pi t^{0}} \iiint \frac{\vec{p} \cdot (\vec{\tau} \cdot \vec{r}')}{|\vec{\tau} \cdot \vec{\tau}'|^{3}} dz'$$



$$\nabla \cdot \vec{e} = \frac{1}{\epsilon_0}$$

$$\vec{\nabla} \cdot \vec{D} = \frac{1}{\epsilon_0}$$

$$\vec{P} = \vec{\epsilon} \cdot \vec{\epsilon} + \vec{P}$$

$$\vec{P} = \vec{\epsilon} \cdot \chi \vec{\epsilon}$$

$$E_{au} = \frac{D_{ai}}{\varepsilon_0} = \frac{\sigma_{+}}{\varepsilon_0}$$

$$\vec{\epsilon}_{\text{dul}} = \frac{\vec{\sigma}_{\text{f}}}{\epsilon} = \frac{\sigma_{\text{f}}}{\epsilon} \hat{z} = \frac{\sigma_{\text{f}}}{\epsilon_{\text{o}} K} \hat{z}$$

$$\overline{E}_{du} = \overline{E}_{0} - \sigma_{b}$$

$$\begin{array}{c}
D \cdot 4 \times r^2 = Q_f = Q \\
\hline
D = Q \\
\hline
4 \times r^2
\end{array}$$

$$\vec{D} = \frac{Q}{4\pi r^2} \hat{r}$$

$$\begin{bmatrix}
E = \frac{D}{\epsilon} = \frac{Q}{4\pi \epsilon r^2} \\
E = \frac{Z}{\epsilon_0} = \frac{Q}{4\pi \epsilon r^2}$$

$$\vec{P} = \epsilon_0 (K-1) \vec{E} = \frac{\epsilon_0 (K-1) Q \hat{r}}{4\pi \epsilon r^2}$$

$$S_L = -\vec{\nabla}.\vec{P} = 0$$

$$\sigma_{b} = -\frac{\varepsilon_{o}(K-1)Q}{4\pi \in R_{1}^{2}}$$

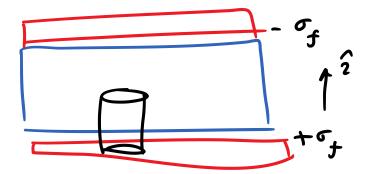
$$\sigma_{b} = + \frac{\epsilon_{0} (K-1) Q}{4 \pi \epsilon R_{2}^{2}}$$

at 
$$R_1 = \overrightarrow{P} \cdot \widehat{R}$$
  
=  $A \cdot \widehat{r} \cdot (-\widehat{r})$   
=  $-A$ 

$$\nabla. \vec{P} = \frac{1}{r^2} \frac{3}{7r} (r^2 P_r) + \frac{1}{rsm^3} \frac{3}{70} (sm\theta P_{\theta}) \\
= \frac{1}{r^2} \frac{3}{3r} (r^2 P_{\theta}) + 0 + 0 = 0$$

$$R > \frac{V}{7 \times 10^6} = \frac{9 \times 10^4}{3 \times 10^6} = 7 \times 10^2 = \frac{10^{-2}}{10^6}$$

$$\epsilon = \epsilon_1 + (\epsilon_2 - \epsilon_1) \times \frac{\epsilon_2 - \epsilon_1}{\epsilon_2}$$



$$D = Q^{\dagger}$$

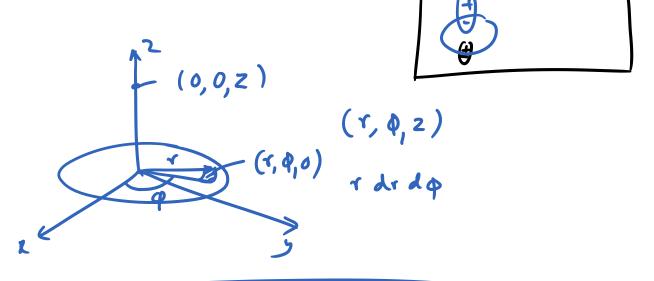
$$\vec{\epsilon} = \vec{\frac{5}{\epsilon}} = \underbrace{\vec{\sigma}_{+}}_{\left[\epsilon_{1} + \frac{(\epsilon_{2} - \epsilon_{1})}{4}\chi\right]}^{2}$$

$$V = -\int_{A}^{B} \vec{E} \cdot \vec{u} = \int_{0}^{A} \frac{\sigma_{+}}{(\epsilon_{1} + (\epsilon_{2} - \epsilon_{1}) \chi)} d\chi$$

$$\vec{p} = \epsilon_0 \vec{x} \vec{E} = \epsilon_0 (\vec{k} - 1) \vec{E}$$

$$= (\epsilon_0 \vec{k} - \epsilon_0) \vec{E} = (\epsilon - \epsilon_0) \vec{E}$$

$$= \vec{D} - \epsilon_0 \vec{E}$$



$$\nabla V = 0$$

$$\nabla V = 0$$

$$\nabla V = 0$$

$$\frac{\lambda_{5}}{1} \frac{3\lambda}{9} \left( \lambda_{5} \frac{3\lambda}{3\lambda} \right) = 0$$

$$\frac{dV}{dx} = \frac{CI}{r^2}$$

$$V = -\frac{CI}{r} + Cz$$