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$$\vec{E} = k \int_{\text{all } q_i} \frac{q_i}{r_{ij}^2} \hat{r}_{ij}$$

$$\vec{r}_{ip} : \vec{r}_e : \vec{r}_p \quad \vec{r}_{ip} = \vec{r}_p - \vec{r}_i$$

$$\vec{P} = \sum q_i \vec{r}_i$$

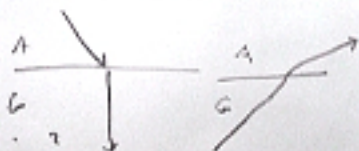
$$Q_{\text{enc}} = \int \rho d^3r = 4\pi \int \rho r^2 dr$$

$$\Phi_E = \oint \vec{E} \cdot d\vec{A}$$

$$\omega = 2\pi f \quad z = \sqrt{R^2 + (x_2 - x_1)^2}$$

$$X_L = \omega L \quad X_C = \frac{1}{\omega C}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$



- 2
- 1
- $n_2 > n_1$
- 1
- 2