

Mapa Szypa 1



Tapeia Eppablas: E, +, Piz, Ciz, Ciz, We

$$\widetilde{P} \widetilde{Q} = \widetilde{\Phi} \longrightarrow \begin{bmatrix} \phi_1 \\ \phi_2 \end{bmatrix} = \begin{bmatrix} \rho_{11} & \rho_{12} \\ \rho_{21} & \rho_{22} \end{bmatrix} \begin{bmatrix} Q_1 \\ Q_2 \end{bmatrix}$$

1. Q,=0 + Q2



$$\frac{\vec{E}_1 = 0}{\vec{E}_2} = \frac{\alpha_c r = 6}{r}$$

$$\frac{4\pi s r^2}{4\pi \epsilon c}$$

$$\frac{\Phi_1 = 0}{c}$$

$$\frac{\Phi_2 = 0}{c}$$

$$\frac{\Phi_1 = \Phi_2}{4\pi \epsilon c}$$

Av n rollomea Exel Tredio D Econespira, n rollomea eival 160 du yayırıl $\phi_1 = \rho_1 = \phi_2 = \phi_1$ $\rho_2 = \phi_1$ $\rho_3 = \phi_2$ $\rho_4 = \rho_2$ $\rho_5 = \rho_6$ $\rho_6 = \rho_6$ ρ_6

2. Q, +0=Qg



$$\Phi_{1} = \begin{pmatrix} 0 & \dots & = & Q_{1} \\ \alpha & & & & Q_{1} \end{pmatrix} \begin{pmatrix} 1 & -1 & +1 \\ \alpha & b & C \end{pmatrix} \begin{pmatrix} \alpha \rightarrow b & (\rightarrow a) \\ \alpha & b & C \end{pmatrix}$$

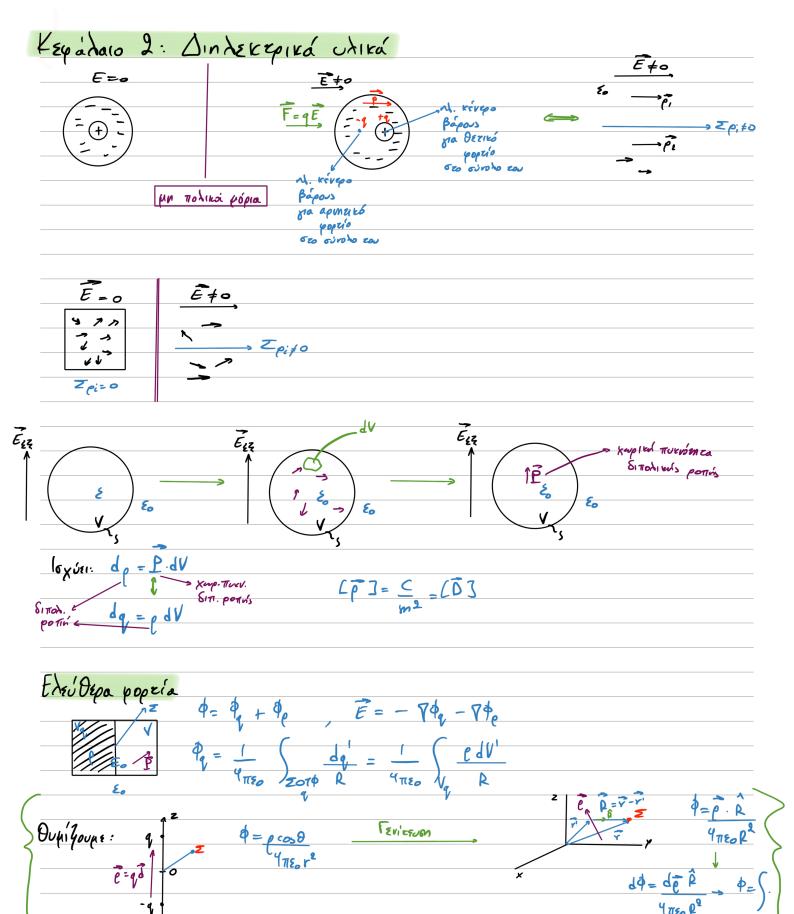
$$\frac{\Phi_{g}}{Q} = \frac{Q_{1}}{4\pi\epsilon c}, \quad \frac{Q_{1}}{4\pi\epsilon c} = \frac{1}{4\pi\epsilon c} \left(\frac{1}{a} - \frac{1}{b} + \frac{1}{c} \right), \quad \frac{Q_{21}}{4\pi\epsilon c} = \frac{1}{4\pi\epsilon c}$$

$$\widetilde{C} = \widetilde{P}^{-1} = 1 \quad \text{ad}_{j}(\widetilde{P}) \implies \widetilde{C} = \frac{q_{\pi S}}{b-a} \quad \begin{bmatrix} ab & -ab \\ -ab & bc-actab \end{bmatrix}$$

$$\zeta_{ii} = \sum_{j} c_{ij}$$
 $\zeta_{jj} = -c_{ij}$ $\zeta_{jj} = \zeta_{ji}$

Seu περγά πεδίο, έχουμε nl. por a=b ι' c=a





Apa:
$$\phi_e = \frac{1}{4\pi\epsilon_o} \left(\frac{de^{-\hat{R}}}{\rho^2} - \frac{1}{4\pi\epsilon_o} \right)_V \frac{\hat{P} \cdot \hat{R}}{\rho^2} dV'$$

