$$\int \vec{E} d\vec{S} = \frac{1}{\epsilon_0} \sum_{p} \vec{E} \cdot \vec{E}$$

 $\overrightarrow{F} = \frac{e_{\lambda}e_{z}}{4\pi \varepsilon_{0}r^{2}} \frac{r}{|\overrightarrow{F}|}$

took elektila

Plosca:
$$E = \frac{\sigma}{2\varepsilon_0}$$
 $\sigma_{...}$ ploscinske gostot
2 plosci (kondenzator) $E = \frac{\sigma}{\varepsilon_0}$
 $C = \frac{e}{U} \left[F = \frac{As}{V}\right]$ $C = \varepsilon_0 \frac{s}{d}$

$$R = \begin{cases} \frac{1}{S} & U = RI & U = Ed \end{cases}$$

$$W_{pe} = eU \quad P = IU = I^{2}R = \frac{U^{2}}{R}$$

Vzporedna vezava:
$$R = \sum R$$
; zeparedna: $\frac{1}{R} = \sum \frac{1}{R}$;

Polnjenje kondenzatorja: $e(t) = CU_g(1 - e^{-\frac{t}{R}c})$

Pramenje koncenzatorja $e(t) = CU e^{-\frac{t}{R}c}$

Magnetro pote

$$je = rot \vec{B} = \vec{I}$$
 $je = rot \vec{B} = \vec{I}$

... gostota d. toka

 $\vec{B} = \mu_0 \vec{H}_{R,j} = \mu_0 \vec{I}_{R,j} = \mu_0 \vec{I}_{R,j}$

indukcija

haze csteti

$$\begin{bmatrix} TJ - \begin{bmatrix} \frac{Ns}{Cm} \end{bmatrix} = \begin{bmatrix} \frac{ks}{As^2} \end{bmatrix} = \begin{bmatrix} \frac{N}{Am} \end{bmatrix} = \begin{bmatrix} \frac{J}{Am^2} \end{bmatrix} = \begin{bmatrix} \frac{VS}{Ms^2} \end{bmatrix}$$

$$\begin{bmatrix} VJ = \begin{bmatrix} \frac{Nm}{As} \end{bmatrix} = \begin{bmatrix} \frac{W}{As} \end{bmatrix}$$

$$[R] = \left[\frac{Nm}{\Lambda^2 S}\right] = \left[\frac{V}{A}\right]$$

$$[F] = \left[\frac{A^2 s^2}{N_m}\right] = \left[\frac{A}{V} s\right]$$

$$[H] = \left[\frac{N_m}{A^2}\right] = \left[\frac{V}{A}S\right]$$