

ΤΧΛΟΛΟΓΙΩ
 $\nabla \cdot \vec{B} = 4\pi\rho$, $\nabla \cdot \vec{E} = -\frac{1}{c}\frac{\partial \vec{B}}{\partial t}$, $\nabla \times \vec{H} = \frac{4\pi}{c}\vec{J} + \frac{1}{c}\frac{\partial \vec{E}}{\partial t}$. $\vec{D} = \epsilon \vec{E}$, $\vec{B} = \mu \vec{H}$. $\vec{E} = \vec{\nabla} \times \vec{A}$, $\vec{E} = -\vec{\nabla} \phi - \frac{1}{c} \frac{\partial \vec{A}}{\partial t}$.

$\psi(\vec{x}, t) = \frac{1}{2\pi} \int_{-\infty}^{+\infty} \tilde{\Psi}(\vec{x}, \omega) e^{-i\omega t} d\omega$, $\tilde{\Psi}(\vec{x}, \omega) = \int_{-\infty}^{+\infty} \psi(\vec{x}, t) e^{i\omega t} dt$
 $u_e = \frac{1}{8\pi} \vec{E} \cdot \vec{B}$, $u_m = \frac{1}{8\pi} \vec{B} \cdot \vec{H}$, $\vec{s} = \frac{c}{8\pi} (\vec{E} \times \vec{H})$, $\vec{F} = q(\vec{E} \times \frac{1}{c} \vec{E} \times \vec{B})$, $\vec{g} = \frac{1}{8\pi c} (\vec{E} \times \vec{B})$ (αριθμούσε)

$\vec{s} = \text{Re} \left[\frac{c}{8\pi} (\vec{E} \times \vec{H}^*) \right]$, $\vec{B} = \frac{c}{\omega} [\vec{E} \times \vec{E}]$
 $r = r_p + i r_\pm$, $\cos r = \cos v_p \cosh v_\pm - i \sin v_p \sinh v_\pm$, $\sin r = \sin v_p \cosh v_\pm + i \cos v_p \sinh v_\pm$
 $\epsilon(\omega) = 1 + \frac{4\pi N e^2}{m} \sum_i f_i (\omega_i^2 - \omega^2 - i\omega\gamma_i)^{-1}$, $\Xi = \sum f_i$, $\omega_p^2 = 4\pi N e^2 / m$

$\sigma = f_0 N e^2 / [m(x_0 - i\omega)]$.
 $u(x, t) = \frac{1}{\sqrt{2\pi}} \int A(t) e^{ikx - i\omega kt} dk$, $A(t) = \frac{1}{\sqrt{2\pi}} \int u(x, 0) e^{-ikx} dx$.
 κυριαρχεί - κροταληγ $\epsilon(\omega) = 1 + \frac{1}{\pi} \int_{-\infty}^{+\infty} \frac{[\epsilon(\omega') - 1]}{\omega' - \omega} d\omega'$