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$$\int_L \vec{E} d\vec{l} = -\frac{\partial\Phi}{\partial t} = -\int_S \frac{\partial\vec{B}}{\partial t} d\vec{S}.$$

$$\text{rot}\vec{E} = -\frac{\partial\vec{B}}{\partial t}, \quad \text{rot}\vec{H} = \vec{j} + \frac{\partial\vec{D}}{\partial t}, \quad \text{div}\vec{D} = \rho, \quad \text{div}\vec{B} = 0.$$

(x,y,z,t)

$\vec{E}, \vec{B}, \vec{D}, \vec{H}$

$$\vec{E}\{0,0,0\}.$$

\vec{v}

$$\vec{B}\{0,0,\vec{B}_z\}$$

$$\vec{E}' = \left\{ 0, -\frac{\nu B_z}{\sqrt{1-\beta^2}}, 0 \right\}.$$

$$\vec{E}\{0,0,\vec{E}_z\}$$

$$: \vec{B}\{0,0,0\}.$$

$$\vec{B}' = \left\{ 0, -\frac{\nu E_z}{c^2\sqrt{1-\beta^2}}, 0 \right\}.$$

$$\nu = 10^2 \quad / - \quad , \quad \beta = \frac{\nu}{c} \quad 10^{-6}$$

$$\beta^2 -$$

$\beta -$

