



$$E$$

$$\int \overline{E} \cdot dl = V_A - V_B$$
STATICS $\sqrt{x} \overline{E} = 0$

$$\nabla x = -\frac{\partial B}{\partial t}$$

$$V = -\frac{d\bar{\Phi}}{dt}$$

$$\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

$$\nabla \times \vec{H} = \vec{J} + \frac{\partial \vec{D}}{\partial t}$$

$$\nabla \cdot \vec{B} = 0$$

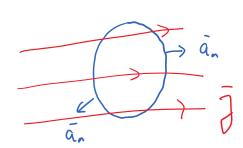
$$\nabla \cdot \vec{B} = 0$$

$$\nabla \cdot \vec{A} = \frac{As}{m^2} \cdot \frac{1}{s} = \frac{A}{m^2}$$

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 $= -\frac{\partial}{\partial \epsilon} \int g_{r} dV = -\frac{\partial Q}{\partial t}$



$$\nabla \times \vec{E} = -\frac{3\vec{B}}{3t}$$

$$\nabla \times \vec{H} = \vec{J} + \frac{3\vec{D}}{3t}$$

$$\nabla \cdot \vec{B} = 0$$

$$\vec{E} = ?$$

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$$\vec{J} = 0$$

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$$\vec{J} = 0$$

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WAVE EQUATION

$$\nabla^2 \bar{E}(\bar{R}_1 t) - \mu_0 \varepsilon_0 \frac{\Im^2}{\Im t^2} \bar{E}(\bar{R}_1 t) = 0$$

$$\bar{E}(\bar{R}_1 t) = \bar{a} E(z_1 t)$$

$$\nabla^2 = \frac{\Im^2}{\Im z^2}$$

$$\bar{\alpha} \left[\frac{\Im^2}{\Im z^2} E(z,t) - M_0 \varepsilon_0 \frac{\Im^2}{\Im t^2} E(z,t) \right] = 0$$

$$g(w) \qquad g(z = vt)$$

$$\frac{\partial}{\partial z}g(z = vt) = g'(z = vt)$$

$$\frac{\partial}{\partial z} g(z + vt) = g'(z + vt)$$

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$$\frac{\partial}{\partial t} g(z + vt) = + v g'(z + vt)$$

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