$$E = Ri + L \frac{di}{dt} \Rightarrow$$

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$$E = Ri^{2} + Li \frac{di}{dt} \Rightarrow$$

$$E = Ri^{2} + L$$

$$\varepsilon = \frac{\varepsilon}{R}, \quad \lambda(t) = \frac{\varepsilon}{R} e^{-\frac{R'}{L}t}$$

$$V = \int_{0}^{\infty} \lambda^{2} dt = \int_{0}^{\infty} \frac{\varepsilon^{2}}{R^{2}} e^{-\frac{R'}{L}t} dt = \frac{R' \varepsilon^{2}}{R^{2}} \left(-\frac{L}{2R'}\right) e^{-\frac{2R'}{L}t} dt$$

$$= \frac{R' \varepsilon^{2}}{R^{2}} \frac{L}{2R'} = \frac{1}{2} L \frac{\varepsilon^{2}}{R^{2}} = \frac{1}{2} L \lambda^{2} \infty$$

$$B = \mu_0 m i = \mu_0 \frac{N}{d} i$$

$$\overline{\Phi(B)} = \overline{L} i = B \Sigma N = \overline{\Sigma} N \mu_0 N i + \overline{\Sigma} N \mu_0 N i$$

$$N,d$$

$$L = \sum_{i} N_{i}^{2} M_{i}$$

Um = MmT, Mm = 
$$\frac{1}{2} \frac{B^2}{M_0}$$
 DENSITA DI ENERGIA MAGNETICA

$$U_{m} = \int_{T} u_{m} d\tau = \int_{T} \frac{1}{2} \frac{B^{2}}{\mu} d\tau$$

i = i = + is CORRENTE TOTALE

AMPERE - MAXWELL

se non si son le

$$\oint_{\varepsilon} \vec{R} \cdot d\vec{s} = \mu_{\varepsilon} \varepsilon \cdot \frac{d\Phi(\vec{k})}{dt} = \iint_{c} \vec{E} \cdot d\vec{s} = -\frac{d\Phi(\vec{k})}{dt}$$

$$\mu_{0} = 4\pi \cdot 19 \quad 12 \quad \mu_{0} \in \mathbb{R}_{n} = \frac{1}{C^{2}}$$

$$\xi_{0} = 8.854 \cdot 10$$

$$\oint_{c} \vec{E} \cdot d\vec{s} = -\frac{d\Phi(\vec{B})}{dt}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \qquad \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \qquad \frac{1}{\sqrt{2}} = \frac{$$



$$\oint_{c} \hat{t} \cdot d\vec{s} = - \iint_{\Sigma(c)} \hat{\vec{z}} \cdot \hat{\vec{z}} \cdot \hat{\vec{z}} d\vec{s} = - \iint_{\Sigma(c)} \hat{\vec$$

$$\oint_{\mathcal{E}} \vec{B} \cdot d\vec{s} = \oint_{\mathcal{E}(\mathcal{E})} \vec{\nabla} \times \vec{B} \hat{n} d\Sigma = \mu \cdot \left( \vec{J} \cdot \hat{n} d\Sigma + \mu \cdot \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec{J} + \mathcal{E} \cdot \int_{\mathcal{E}(\mathcal{E})} \vec{E} \cdot \hat{n} d\Sigma \right) = \mu \cdot \left( \vec$$

$$\vec{\nabla} \cdot \vec{\epsilon} = \vec{\xi}$$
  $\vec{\nabla} \times \vec{\epsilon} = -\frac{3\vec{R}}{3t}$ 

$$\vec{\nabla} \times \vec{B} = M \cdot (\vec{j} + \varepsilon \cdot \frac{\vec{D} \cdot \vec{E}}{\vec{D} \cdot \vec{E}})$$

$$\vec{\nabla} \cdot (\vec{\nabla} \times \vec{B}) = 0$$

$$\vec{\nabla} \cdot (\vec{\nabla} \times \vec{B}) = 0$$

$$\vec{\nabla} \cdot (\vec{\nabla} \times \vec{B}) = M \cdot \vec{\nabla} \cdot \vec{J} + M \cdot \varepsilon \cdot \vec{D} \cdot (\vec{\nabla} \cdot \vec{E}) = 0 \Rightarrow$$

$$\vec{\nabla} \cdot \vec{J} = - \frac{2\rho}{2\pi} \vec{E} \vec{Q} \cdot \vec{D} \vec{I} \quad \text{CONTINUITA}$$

$$\int_{\tau}^{2} \vec{J} d\tau = -\frac{1}{5t} \int_{\tau}^{2} d\tau =$$

DIVERGE TYZA

CONSERVAZIONE DELLA CARICA