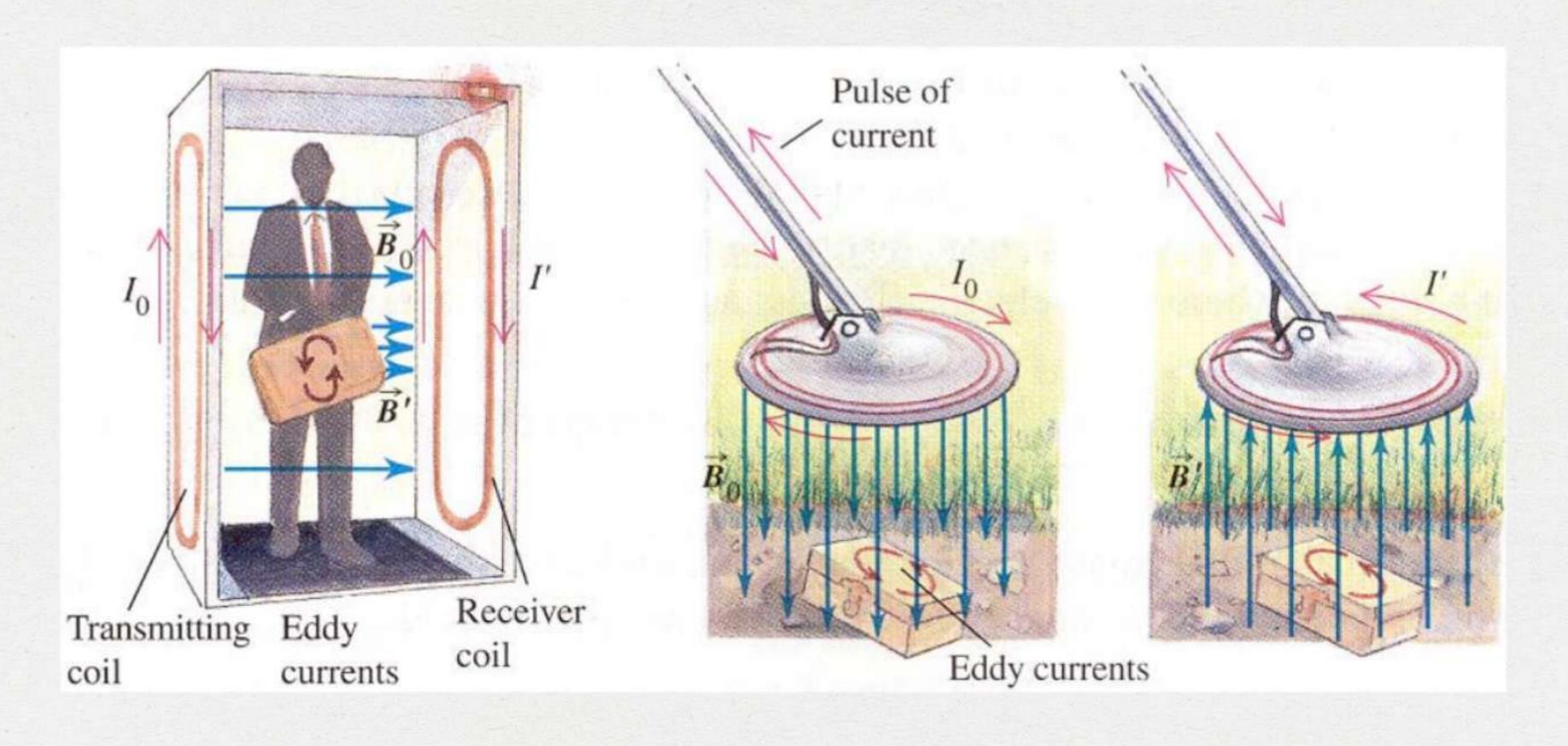
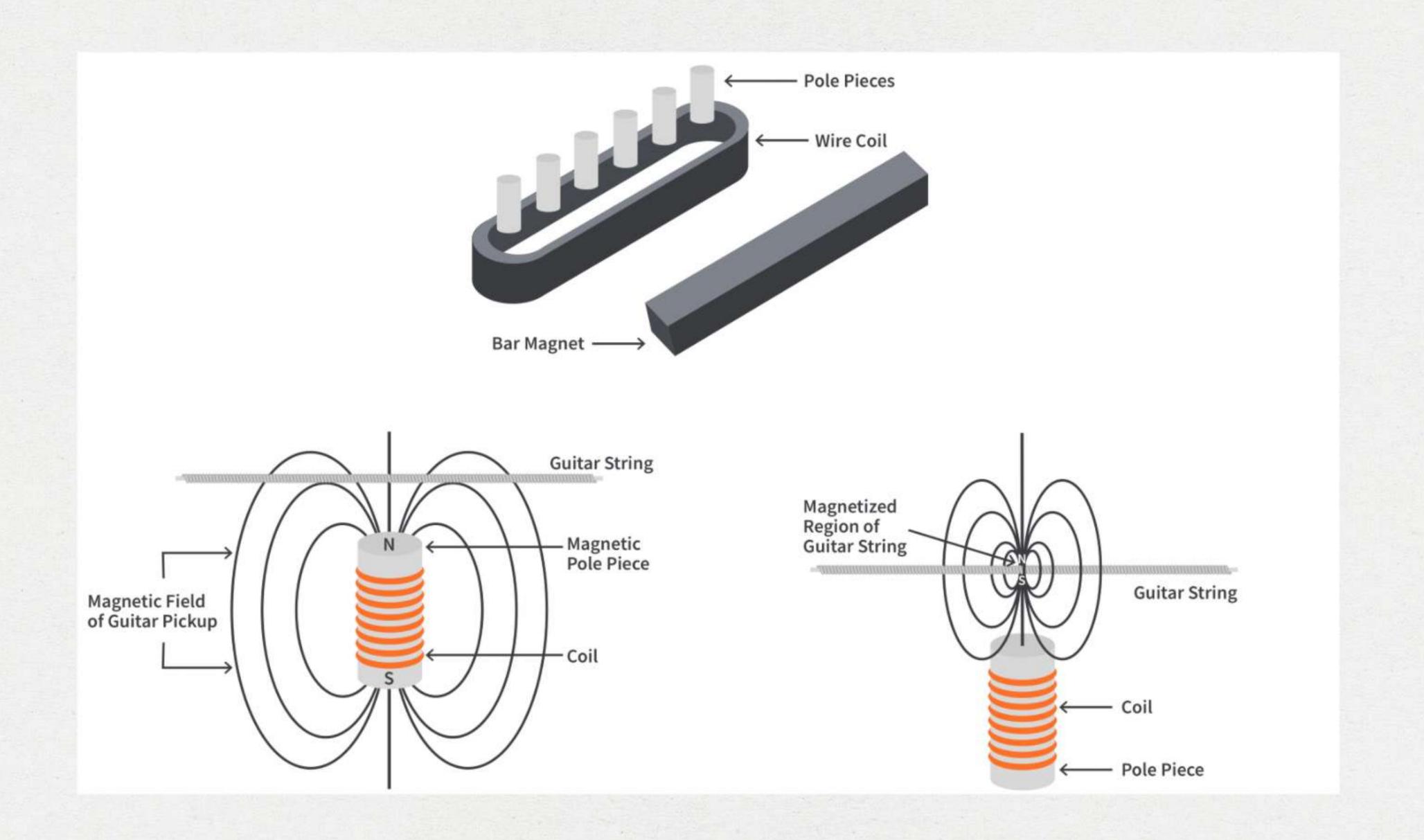
CORRENTI DI FOUCAULT / PARASSITE (EDDY CURRENTS)

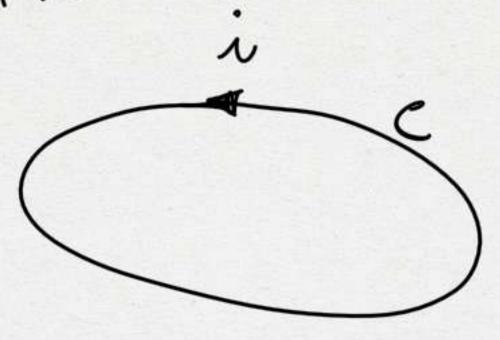




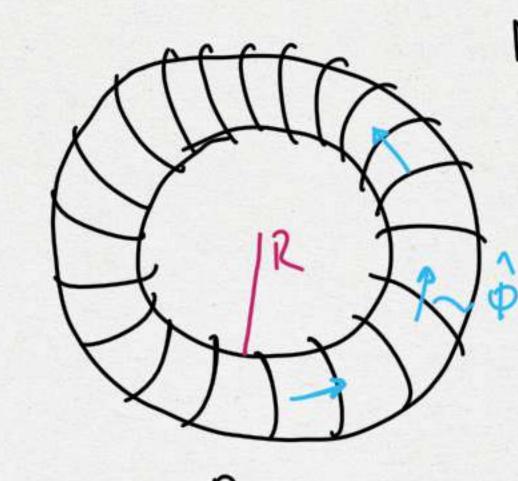
$$\begin{array}{c|c}
\hline
t_1 & \overline{\beta} \\
\hline
N & \overline{\beta} \\
\hline
N & \overline{\beta} \\
\hline
R & 0
\end{array}$$

$$Q = \begin{cases} idt = \begin{cases} \frac{t_{L}}{E_{R}} dt = \frac{t_{L}}{\Phi_{L}} \\ \frac{t_{L}}{E_{R}} dt = \frac{t_{L}}{\Phi_{L}} \end{cases} d\Phi = \begin{cases} \frac{t_{L}}{E_{R}} dt = \frac{t_{L}}{E_{R$$

AUTOINDUZIONE



$$\overline{\Phi}_{c}(\vec{B}) = \int_{\Sigma(c)}^{\vec{C}} \vec{\beta} \cdot \hat{A} d\Sigma = \int_{\Sigma(c)}^{c} (\mu \cdot \hat{k}) \int_{\Sigma(c)}^{c} d\vec{\delta} \times \hat{k} \int_{\Sigma(c)}^{c} AUTOFLUSSO$$



$$\vec{B} = \underbrace{\frac{\mu \cdot Ni}{2\pi 2}}_{2\pi 2} \hat{\Phi}$$

$$\vec{\Phi}_{s}(\vec{B}) = \int_{\vec{Z}} \vec{B} \cdot \hat{n} d\vec{\Sigma} = \int_{\vec{Q}} d\vec{Q}' \int_{\vec{Q}} d\vec{D}' \underbrace{\frac{\mu \cdot Ni}{2\pi (R+b')}}_{2\pi (R+b')} = \underbrace{\frac{\mu \cdot Ni}{2\pi}}_{\vec{Q}} \underbrace{\frac{db'}{R+b'}}_{\vec{Q}} =$$

$$= \underbrace{\frac{\mu \cdot Ni}{2\pi}}_{2\pi} log(R+b') = \underbrace{\frac{\mu \cdot Ni}{2\pi}}_{\vec{Q}} log(\underbrace{R+b}_{\vec{R}}) + \underbrace{\frac{\mu \cdot Ni}{2\pi}}_{\vec{Q}} log(\underbrace{R+b}_{\vec{R}}) = \underbrace{Li}_{\vec{Q}}$$

$$\vec{\Phi}(\vec{B}) = N \cdot \vec{\Phi}_{s}(\vec{B}) = \underbrace{\frac{\mu \cdot Ni}{2\pi}}_{\vec{Q}} log(\underbrace{R+b}_{\vec{R}}) = \underbrace{Li}_{\vec{Q}}$$

$$= \underbrace{\frac{\mu \cdot Ni}{2\pi}}_{\vec{Q}} log(\underbrace{R+b}_{\vec{Q}})$$

$$L = \frac{4u_0N^2log(R+b)}{2\pi}$$

$$\mathcal{E}_{i} = -\frac{d\Phi}{dt} = -\frac{d}{dt} \operatorname{L}_{i} = -\operatorname{L}_{dt} \stackrel{[]}{dt}$$

$$i_{i} = -\frac{d}{R} \frac{di}{dt}$$

$$[\Phi] = [L][i] \Rightarrow Tm^2 = Wb = [L]A \Rightarrow$$

$$[L] = \frac{Wb}{A} = H \quad Henry$$

$$1 \text{ m} \qquad \sqrt{0.5 \text{ m}} \qquad L \approx 4.10^{-6} \text{ H} \qquad -\text{ellow} \qquad \text{mH}$$

$$\sum_{k \to \infty} \sum_{k \to \infty} \sum_{k$$

$$\frac{di}{i-\epsilon_R} = -\frac{R}{L}dt \Rightarrow log(i-\epsilon_R) = -\frac{R}{L}t \Rightarrow$$

$$\log\left(\frac{i-\frac{\varepsilon_{R}}{2}}{-\frac{\varepsilon_{R}}{2}}\right) = -\frac{R}{L}t \Rightarrow \frac{i-\frac{\varepsilon_{R}}{2}}{-\frac{\varepsilon_{R}}{2}} = e^{-\frac{R}{L}t} \Rightarrow$$

$$i(t) = \frac{\varepsilon}{R} \left(1 - e^{-\frac{R}{L}t} \right), \quad \varepsilon_i(t) = -\frac{L}{dt} = -\frac{L}{R} e^{-\frac{R}{L}t} = -\frac{\varepsilon}{R} e^{-\frac{R}{L}t}$$

$$i_i(t) = -\frac{\varepsilon}{R} e^{-\frac{R}{L}t}$$

$$i(t) = \frac{\xi}{R} \left(1 - e^{-t/T}\right), T = \frac{L}{R}$$

$$i(t)$$

$$i(t)$$

$$i(t)$$

$$\sim 10T$$

$$\mathcal{E}_{i} = -\mathcal{E}_{i}$$

$$\mathcal{E}_{i} = -\mathcal{E}_{i}$$

$$\mathcal{E}_{i} = -\mathcal{E}_{i}$$

$$\mathcal{E}_{i} = -\mathcal{E}_{i}$$

APERTURA DEL CIRCUITO 1 R'>>R R'

t