

MACCHINE ELETTRICHE

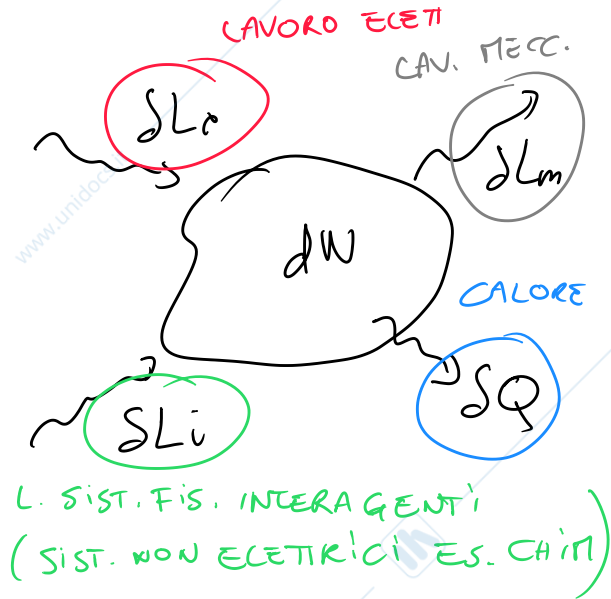
PARTICOLARE DISPOSITIVO

TRASF. EN, ELETTRICA IN ENERGIA MECCANICA E Vic.

MODIFICARE I PARAMETRI DELL'ENERGIA ELETTRICA $\rightarrow V, i$

USANDO LEGGI DELL'ELETTROMAGNETISMO (EQ. MAXWELL)

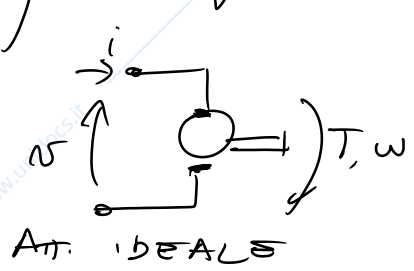
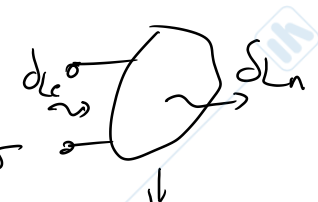
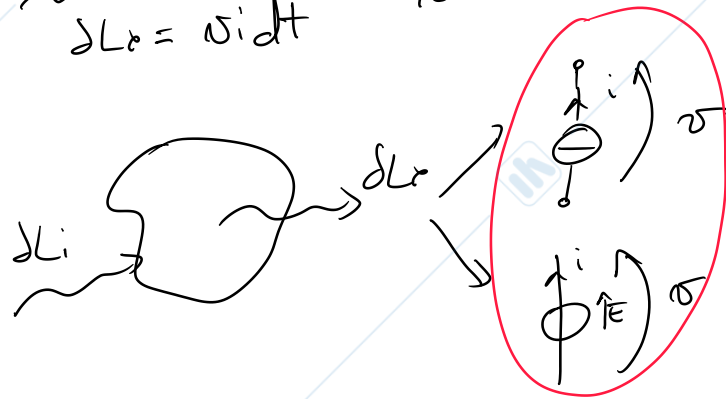
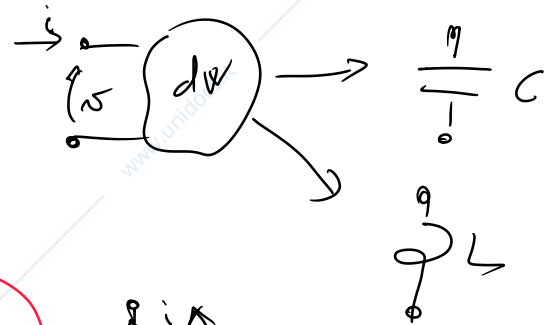
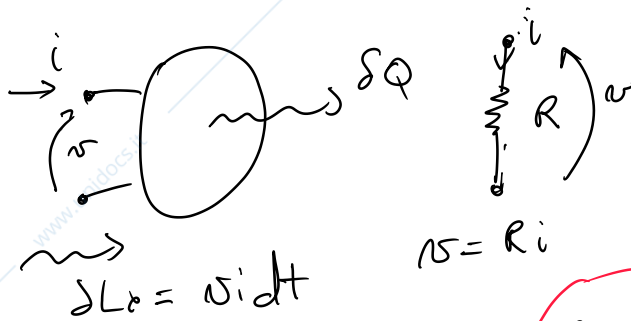
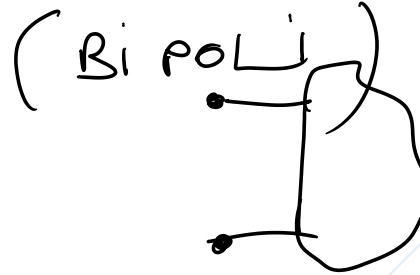
NO BATTERIE, **No** CONVERTITORI Elettronici

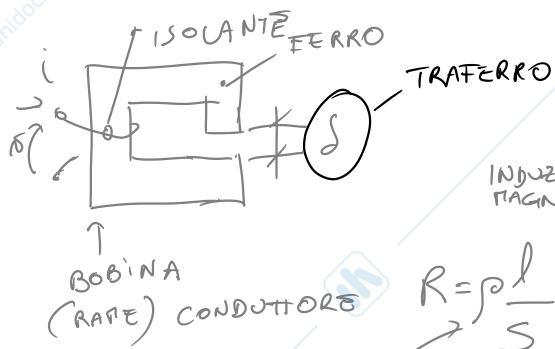


TROVARE MODELLI A PARAMETRI CONCENTRATI

LAV ELETTRICO AI

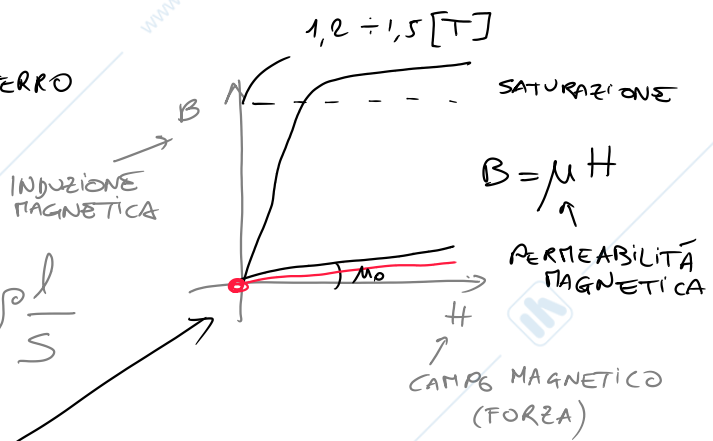
MORSETTI



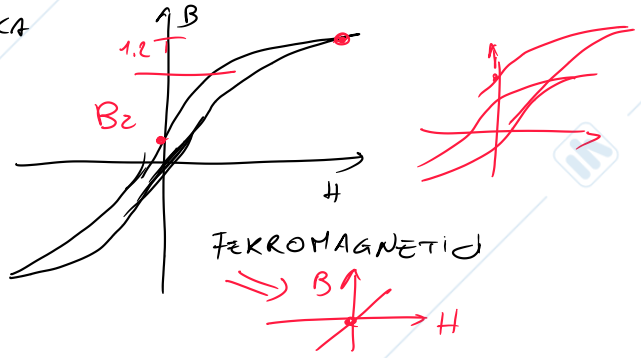
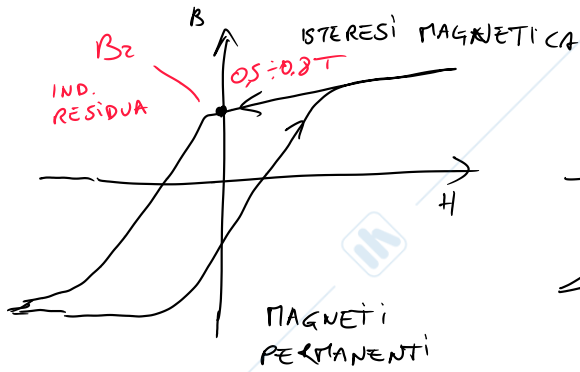


$$R = \frac{\rho l}{S}$$

RESISTIVITÀ



FERROMAGNETICI $\mu = 1000 \div 10000 \mu_0$ \nearrow VUOTO
 $\mu_0 = 4\pi \cdot 10^{-7} \text{ H/m}$ \leftarrow PARAMAGNETICI
 $\mu < \mu_0 \rightarrow$ DIAMAGNETICI (BISMUTO)



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

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

$$\nabla \cdot \vec{B} = 0 \quad \nabla \cdot \vec{D} = \rho_{LIBERA}$$

$$\vec{B} = \mu \vec{H} \quad \vec{D} = \epsilon \vec{E}$$

$$\vec{J} = \rho \vec{E} \quad (\text{LEGGE DI OHM})$$

$$\frac{\partial \vec{D}}{\partial t} = \text{cozz. spostamento (TRASCURATA)}$$

$$f \text{ piccolo} \quad \lambda \ll \frac{c}{f} \quad \leftarrow \text{velocità luce}$$

dimensione

QUASI-STAZIONARIO

LEGGI DI FARADAY

LEGGI DI AMPERE

LEGGI DI GAUSS

LEGGI COSTITUTIVI