$$\int_{c}^{2} B \cdot d\vec{s} = \mu_{o} \sum_{\kappa} i_{\kappa} = \mu_{o} i$$

$$\int_{\mathcal{L}} \vec{\beta} \cdot d\vec{\beta} = \left( \vec{\nabla}_{x} \vec{\beta} \cdot \vec{n} d\Sigma = \mu_{0} \vec{i} = \mu_{0} \right) \vec{\beta} \cdot \vec{n} d\Sigma = \sum_{\Sigma(c)} \vec{n} d\Sigma =$$

TXB=MoT FORMA LO CALS
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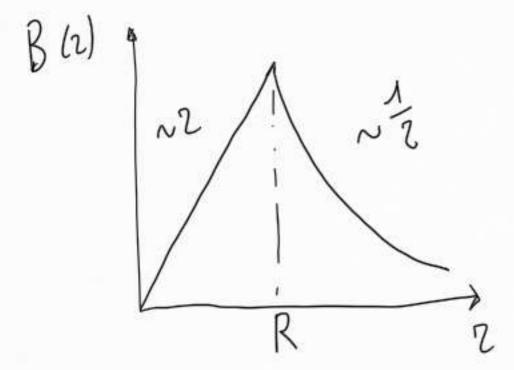
LOGISTORMA

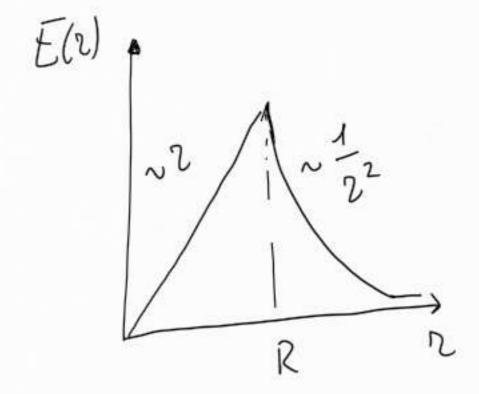
LOCALS

LOGISTORMA

LOCALS

LOC





$$\frac{d\vec{F}}{d\vec{l}} = i d\vec{l} \times \vec{B} \quad \text{we define}$$

$$\frac{d\vec{F}}{d\vec{l}} = i d \times \vec{B} \quad \text{form on untare de large large}$$

$$i. \quad | i_{1}| = d\vec{\Gamma}_{1} = i_{1} d \times \vec{B}_{2} = i_{1} \cancel{y} \times \vec{z} B_{2} = i_{1} B_{2} \cancel{x}$$

$$\times \times \vec{f}_{1} = d\vec{\Gamma}_{1} = i_{2} d \times \vec{B}_{1} = i_{2} \cancel{y} \times (-\vec{z}) B_{1} = -i_{2} B_{1} \cancel{x}$$

$$\times \times \times \vec{f}_{1} = i_{1} B_{2} = i_{1} u_{0} i_{1}$$

$$\times \times \times \vec{f}_{1} = i_{1} B_{2} = i_{1} u_{0} i_{1}$$

$$+ i_{2} u_{0} u_{1}$$

$$+ i_{2} u_{1} u_{2} u_{2}$$

$$+ i_{3} u_{2} u_{3}$$

$$+ i_{4} u_{2} u_{3}$$

$$+ i_{5} u_{1} u_{2} u_{3}$$

$$+ i_{7} u_{1} u_{2}$$

$$+ i_{7} u_{1} u_{2}$$

$$+ i_{7} u_{1} u_{2}$$

$$+ i_{7} u_{1} u_{2}$$

$$+ i_{7} u_{2} u_{3}$$

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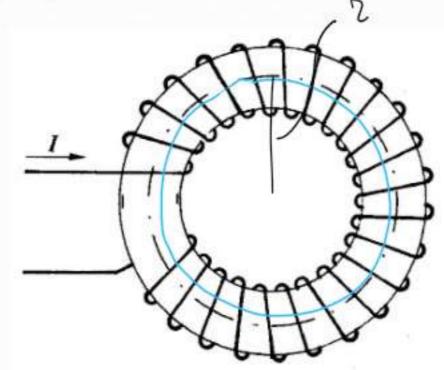
$$+$$

berubly

M= 
$$\frac{1}{2}$$
 denote do que  $\frac{1}{3}$   $\frac{1}{2}$   $\frac{1}{2}$ 

## SOLENOIDI TOROIDALI





$$A = NI$$

$$B = \mu_0 \frac{NI}{l}$$

N = numer of spire

$$\frac{1}{6} \frac{1}{8} \cdot d\vec{3} = 8$$

$$8 = \frac{1}{2\pi} \frac{1}{2}$$

PROPRIÉTA MAGNÉTICHE DELLA MATERIA

m => B.= u.mi

B. // posollela all'osse del solenorde  $H = \frac{B_o}{\mu_o}$ , x riemphonor il solenorde,  $\frac{B}{B_o} = K_m$  ( $K_m = \mu_r$ )

magnetice relative B = Kmmoni = Mni, M = Kmmo postuto  $[\mu] = [\mu_0] = \frac{T_m}{A} = \frac{H}{m}$ 

$$B = Km B_0 = Km \mu_0 H = \mu H \Rightarrow \vec{B} = \mu \vec{H} \qquad (\vec{D} = \vec{E})$$

$$M_0 \rightarrow M \qquad (\vec{P} = \vec{E} \times \vec{E})$$

$$B = \frac{\mu i}{4\pi} \int \frac{d\vec{b} \times \vec{\lambda}}{2^2} , \quad \vec{B} \cdot d\vec{b} = \mu i \qquad (\vec{D} = \vec{E} \cdot \vec{E} + \vec{P})$$

$$\vec{B} - \vec{B}_0 = Km \vec{B}_0 - \vec{B}_0 = (Km - 1) \vec{B}_0 = \chi_m \vec{B}_0 = \chi_m \mu_0 \vec{H}$$

$$\vec{P} = \chi_m \vec{B}_0 + \vec{B}_0 = \chi_m \mu_0 \vec{H} + \mu_0 \vec{H} = \mu_0 (\vec{H} + \vec{H})$$

$$\vec{B} = \vec{B} - \vec{B}_0 + \vec{B}_0 = \chi_m \mu_0 \vec{H} + \mu_0 \vec{H} = \mu_0 (\vec{H} + \vec{H})$$

B=Bo+KmBo=MoMi+MoKmi

La correnta ampuriane of de l'Impère

DIAMAGNETI

Km<1 Xm= Km-1<0

o <sub>⊗</sub> o <sub>⊗</sub> o ⊗ o

© © © © © © © S X~~10 = 10 (2) PARAMAGNETI Km>1 Xm>0 000000

8888888 Xm~ 10<sup>-5</sup> FERROMA GNETI Km>1, Km ~ 10000 Xm = Km-1 ~ Km FERRO, COBALTO, NICHEL