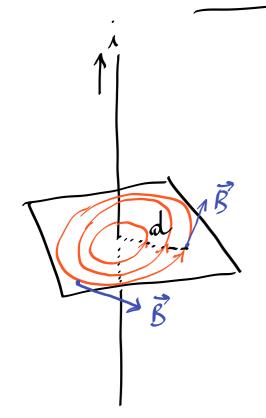
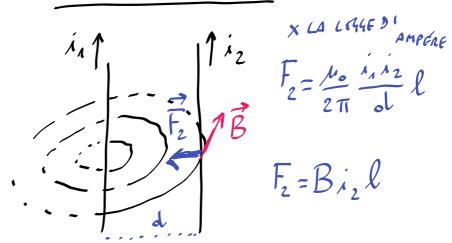
## LE44E DI BIOT-SAVART 12.1256



$$B = \frac{\mu_o}{2\pi} \frac{\lambda}{d}$$

## DIMOSTAZIONE



$$F_2 = \frac{L_0}{2\pi} \frac{\lambda_1 \lambda_2}{\text{ol}} \ell$$

B campo MANNETIGO GENERATO DA in

$$\frac{\mu_0}{2\pi} \frac{i_1 i_2}{d} k = B i_2 k$$

$$B = \frac{\mu_0}{2\pi} \frac{\lambda_1}{\delta l} \quad c.v.d.$$

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$$B = \frac{M_{\bullet}}{z\pi} \frac{1}{ol}$$

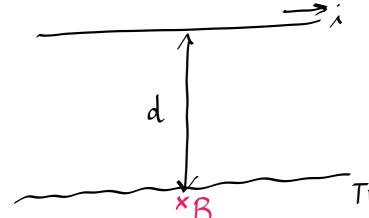
$$d = \frac{\mu_0}{2\pi} \frac{\lambda}{B}$$

B<5,0×10-57

$$\frac{\mu_0}{2\pi} \frac{\lambda}{d} < 5,0 \times 10^{-5} T \Rightarrow \frac{\lambda}{2\pi} \frac{\lambda}{5,0 \times 10^{-5} T} =$$

$$17 = 1 \frac{N}{4 \cdot m}$$

$$= 2 \times 10^{-7} \frac{N}{A^2} \frac{180 A}{5,0 \times 10^{-5} T} =$$



$$P = R \lambda^{2}$$

$$R = \frac{\Delta V}{\lambda}$$

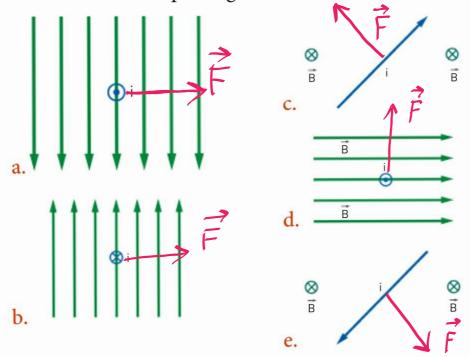
$$P = \Delta V \lambda$$

$$B = \frac{\mu_0}{2\pi} \frac{\dot{\lambda}}{d} \implies d = \frac{\mu_0}{2\pi} \frac{\dot{\lambda}}{B} = \frac{\mu_0 P}{2\pi \cdot \Delta V \cdot B} =$$

$$= \left(2 \times 10^{-7} \frac{N}{A^2}\right) \frac{280 \times 10^6 \text{ W}}{(3.0 \times 10^5 \text{ V})(5.0 \times 10^{-5} \text{ T})} =$$

$$\approx 3.7 \text{ m}$$

3 Il segno ⊙ indica una corrente o un campo magnetico che esce dal foglio, mentre il simbolo ⊗ rappresenta una corrente o un campo magnetico che entra.



▶ Disegna la direzione e il verso della forza magnetica che agisce in ciascuno dei seguenti fili percorsi da corrente immersi in un campo magnetico.