

Unit for flux: Weber
Wb



LESSON BACKGROUNDS

$72A$ $\cdot A$ $\rightarrow 0.03m$
1 $\cdot B$ $\leftarrow 0.12m$
2

$I_1 = I_2 = 8A$
 $B = \frac{\mu_0 I}{2\pi r}$

$B_{1A} = \frac{(4\pi \times 10^{-7})(8)}{2\pi (0.03)} = 5.3 \times 10^{-5} T$ *Out of page*
 $B_{2A} = \frac{(4\pi \times 10^{-7})(8)}{2\pi (0.15)} = 1.06 \times 10^{-5} T$ *In to page*

Net $B = \Sigma B = B_{1A} + B_{2A}$
 $= (5.3 \times 10^{-5}) + (-1.06 \times 10^{-5})$

$B_{net} = 4.24 \times 10^{-5} T$

