

A5.15

$$N \cdot I = R_m \cdot \Phi \dots (1)$$

$$R_m = \underbrace{\frac{l}{\mu_r \mu_0 A}} + \underbrace{\frac{\delta}{\mu_0 A}} \dots (2)$$

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$$(2) \Rightarrow R_m = \frac{26 \cdot 10^{-2}}{7000 \cdot 4\pi \cdot 10^{-7} \cdot 4 \cdot 10^{-4}} +$$

$$+ \frac{0,2 \cdot 10^{-3}}{4\pi \cdot 10^{-7} \cdot 4 \cdot 10^{-4}} \approx 73893 +$$

$$+ 397887 \approx 471780 \frac{A}{Vs}$$

$$(1) \Rightarrow 2000 \cdot 0,1 = 471780 \cdot \Phi$$

$$\Rightarrow \Phi \approx \underline{\underline{4,24 \cdot 10^{-4} \text{ Vs (Wb)}}}$$

$$B = \frac{\Phi}{A} \Rightarrow$$

$$B = \frac{4,24 \cdot 10^{-4}}{4 \cdot 10^{-4}} = 1,06 \frac{Vs}{m^2} (T)$$