Group MND / WS 2021

Test 1 - Electromagnetism (7P)

The following tasks consider a coreless coil with N=120 turns, the radius $r=0.02\mathrm{m}$ (or $r=2*10^{-2}\mathrm{m}$) and the length $l=0.12\mathrm{m}$.

Calculate the Inductivity of the coil. (3P)

$$A = 2 * pi * r^2 = 0 \text{m}^2 \tag{1}$$

$$L = N^2 * mu_0 * A/l = 0H (2)$$

Calculate the magnetic resistance R_m of the coil. (4P)

$$R_m = l/(mu_0 * A) = 0\Omega \tag{3}$$

Total points: P
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