



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 2

05. 09. 2015. - Рјешења

1.

$$\vec{B}_{uk} \approx 400 \vec{k} \text{ pT.}$$

2.

a)
$$L = \frac{\mu_0 N^2 S}{b}.$$

б)
$$u_{AB}(t) = \frac{\mu_0 \omega N^2 S I_m}{b} \cos\left(\omega t + \frac{2\pi}{3}\right).$$

3.

$$q \approx 174 \text{ } \mu\text{C.}$$

4.

a) $\omega = 10^6 \text{ rad/s.}$

б) $\underline{Z}_p = (1 - j) \text{ k}\Omega.$

в) $\underline{S}_E = 2 \text{ mVA}$ и $\underline{S}_{I_s} = 0.$

5.

$$U_{V1} \approx 50,1 \text{ V,}$$

$$U_{V2} = 6,25 \text{ V.}$$

6.

$$\underline{Z} = (3 \pm j6) \Omega$$