



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 2

21. 04. 2016. - Рјешења

1.

$$\vec{B}_A = (8,66\vec{i}_y + 1,57\vec{i}_z) \mu\text{T}.$$

2.

$$e(t_1) = -13,4 \mu\text{V}.$$

3.

$$N_2 I_2 = 13,5 \text{ Az}.$$

4.

$$\text{a) } \omega_{r1} = \sqrt{\frac{3}{2LC}}, \quad \omega_{r2} \rightarrow \infty,$$

$$\omega_{r2} \rightarrow \infty, \quad \omega_{a2} = \sqrt{\frac{2}{LC}}.$$

$$\text{б) } \underline{I}_1 = 0, \quad \underline{I}_2 = -j1 \text{ A}, \quad \underline{I}_3 = j1 \text{ A}.$$

5.

$$\text{a) } \underline{S} = (270 + j60) \text{ kVA}.$$

$$\text{б) } \underline{S} = (135 + j30) \text{ kVA}.$$