



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 2

03. 07. 2014. - Рјешења

1.

$$\Phi_o = 0.$$

2.

a) $\Phi(t) = \frac{1}{2} ab B_m \sin 2\omega t.$

б) $q = -\frac{ab B_m}{2R}.$

в) $e = -\omega ab B_m \cos 2\omega t.$

3.

$$E_2 = 60 \text{ V}.$$

4.

$$f = \frac{1}{2\pi RC}.$$

5.

$$R_p = \frac{400}{3} \Omega.$$

$$P_{p\max} = 30 \text{ mW}.$$

6.

a) $\Delta \underline{I}_{A0} = -\frac{U}{R}, \Delta \underline{I}_{B0} = -\frac{1}{2}(1 + j\sqrt{3})\frac{U}{R}, \Delta \underline{I}_{C0} = 0.$

б) $\Delta \underline{I}_0 = -\frac{1}{2}(3 + j\sqrt{3})\frac{U}{R}.$

в) $\Delta P = 0.$