

Beispielklausur 1

A1 $U_q = 9,04V; R_i = 50,5m\Omega$ **A2** $I_5 = 0,75A; P_{AB} = 15,5W$

A3 $I_1 = 1,37A; I_2 = 2,44A; I_5 = -1,07A$ **A4** $R_{is} = 1,03M\Omega$

A5 $u_C(0) = 5V; u_C(\infty) = 10V; i_C(0) = 62,5mA; i_C(\infty) = 0A;$
 $u_{R1}(0) = 3,125V; u_{R1}(\infty) = 0V; \tau = 88\mu s$

A6 $A_D = 2,73cm^2$

Beispielklausur 2

B1 $R_i = 97m\Omega; R_a = 1,12\Omega$ **B2** $U_3 = 2,1V; P_{AB} = 25,4W$

B3 $I_1 = 2,9A; I_2 = 3,4A; I_5 = 0,5A$ **B4** $C = 41,2 nF$

B5 $u_C(0) = 7,5V; u_C(\infty) = 0V; i_C(0) = -150mA; i_C(\infty) = 0A;$
 $u_{R1}(0) = -7,5V; u_{R1}(\infty) = 0V; \tau = 135\mu s$

B6 $\Theta = 199A$

Beispielklausur 3

A1 $R_{ab} = 2,4\Omega; I_0 = 5A; I_6 = 3A; U_5 = 7,5V; P_1 = 24W$ **A2** $I_3 = 1,45A$ **A3** $R_{is} = 1,29M\Omega$

A4 $t_s = 2,93h$ **A5** $\Theta = 287A.$

Beispielklausur 4

B1 $R_{ab} = 1,25\Omega; I_0 = 8A; I_6 = 4A; U_5 = 5V; P_2 = 20W$ **B2** $I_3 = 1,21A$ **B3** $C = 27,46 nF$

B4 $t_s = 0,52h$ **B5** $l_{Fe} = 13,6cm$

Beispielklausur 5

1 $I = 4,6A; U = 4,3V$

2 $U_{10} = 29,14V; U_{20} = 3,43V; I_1 = -0,13A; I_2 = 0,73A; I_3 = 0,86A; I_4 = -1,03A; I_5 = 0,17A$

3 $D = 4,15 \cdot 10^{-6} \frac{A \cdot s}{m^2}; Q = 6,23 \cdot 10^{-9} C; C_{ers} = 1,246 pF; E_1 = 62,5 \frac{V}{mm}; E_2 = 468,75 \frac{V}{mm};$

$U_1 = 312,5V; U_2 = 4687V$

4 $u_C(0) = 12V; u_C(\infty) = 17,14V; \tau = 0,78\mu s$

5 $H = 9,4 \frac{A}{m}$

Beispielklausur 6

1 $U_1 = 132V; U_3 = 8,9V$

2 $U_{10} = 0,185V; U_{20} = -0,646V; I_1 = 0,646A; I_2 = -0,046A;$
 $I_3 = -0,462A; I_4 = 0,092A; I_5 = 0,785A; I_6 = -0,323A$

3 $R_{is} = 1,273\Omega$

4 $u_C(0) = 0V; u_C(\infty) = -4,67V; i_C(0) = -0,0452A; i_C(\infty) = 0A;$
 $i_1(0) = 0A; i_1(\infty) = -0,108A; \tau = 227,3\mu s$

5 $R_{m\delta\sigma} = 2,4 \cdot 10^6 \frac{A}{V \cdot s}; B_\delta = 0,4T; H_\delta = 31,3 \frac{A}{m}$