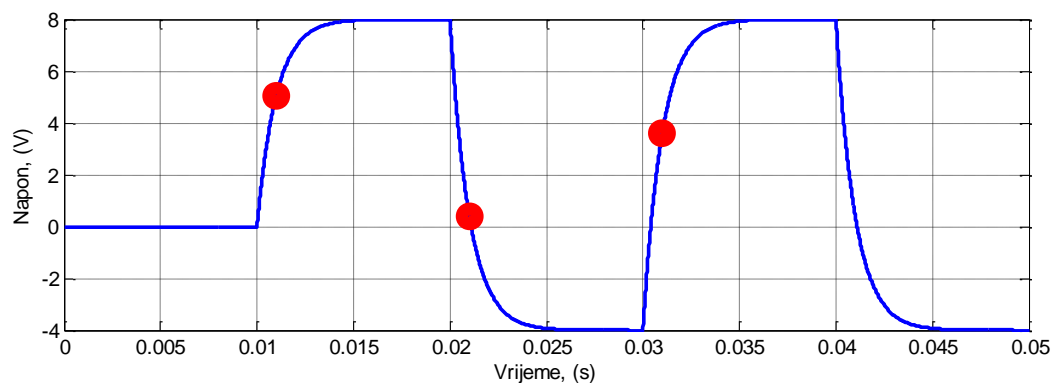


RJEŠENJA MEĐUISPITA IZ ELEKTRONIKE 1

ZADACI

ZADATAK 1.

- a) $R_1 = 75 \, \Omega$
 b) $u_{IZ}(t = 11 \, \text{ms}) = 5,05 \, \text{V}$
 $u_{IZ}(t = 21 \, \text{ms}) = 0,41 \, \text{V}$
 $u_{IZ}(t = 31 \, \text{ms}) = 3,59 \, \text{V}$
 c) skica:



ZADATAK 2.

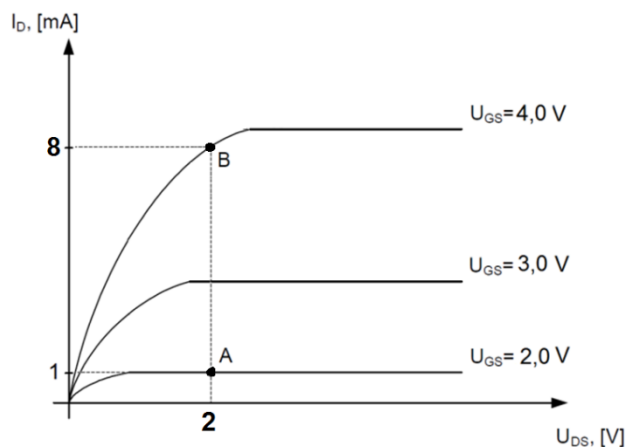
- a) akceptori, $N_{A1} = 1,11 \cdot 10^{17} \, \text{cm}^{-3}$
 b) donori, $E_{F2} = E_C - 0,156 \, \text{eV}$
 c) $\sigma_1 = 5,68 \, \text{S/cm}$
 $\sigma_2 = 10,68 \, \text{S/cm}$
 d) $U = 2 \, \text{V}$

ZADATAK 3.

- a) $W_p = 5,63 \, \mu\text{m}$
 b) $t_n = 4,7 \, \text{ns}$, $Q_n = 23,5 \, \text{pC}$
 c) $r_d = 26,9 \, \text{M}\Omega @ 0,1 \, \text{V}$, $r_d = 1,1 \, \Omega @ 0,54 \, \text{V}$

ZADATAK 4.

- a) n -kanalni MOSFET obogaćenog tipa
 b) $I_{DB} = 8 \, \text{mA}$
 c) $t_{ox} = 8,6 \, \text{nm}$
 d) skica:



PITANJA

	A	B	C	D
1.	D	E	A	C
2.	C	E	D	C
3.	D	A	E	C
4.	D	B	A	E
5.	C	B	E	D
6.	E	C	B	D
7.	A	B	E	D