

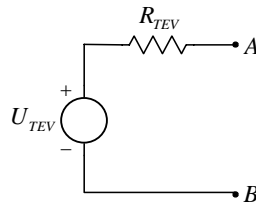
Osnovi elektronike SI

Rešenja zadataka – oktobar 2008.

I deo

2. zadatak

a) $U_{TEV} = 6V$, $R_{TEV} = 1,2\Omega$



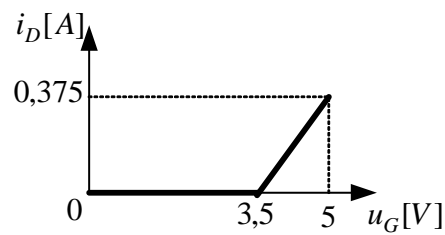
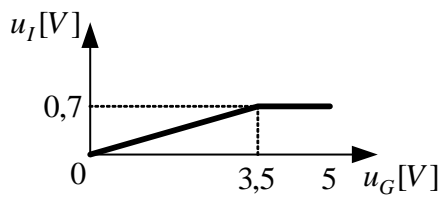
b) $P_{2,4\Omega} = 6,67 \text{ W}$

II deo

2. zadatak

Za $0 \leq u_G \leq 3,5 \text{ V}$: $u_I = \frac{u_G}{5}$; $i_D = 0$

Za $3,5 \text{ V} \leq u_G \leq 5 \text{ V}$: $u_I = V_D = 0,7 \text{ V} = \text{const}$; $i_D = \frac{1}{4}u_G - 0,875$



III deo

2. zadatak

$$v_I = \frac{1}{2} \cdot \left(1 + \frac{R_2}{R_1}\right) \cdot \left(1 - \frac{R_4}{R_3}\right) \cdot v_G$$