

2. MI – minimalni skup bitnih formula koje ne pišu u službenom šalabahteru

Sklopovi s diodama

$$r_d = \frac{U_T}{I_{DQ}}$$
$$U_{IZ} = U_{izm} - U_{izvm}$$

Tranzistori

$$g_m = \frac{\partial i_d}{\partial u_{GS}}$$
$$g_d = \frac{\partial i_d}{\partial u_{DS}}$$
$$\mu = g_m \cdot r_d$$

$$C_g = C_{ox} \cdot W \cdot L \quad - \text{kapacitet upravljačke elektrode prema kanalu}$$

Bipolarni

$$\beta^* = \frac{I_{nC}}{I_{nE}}$$
$$\gamma = \frac{I_{nE}}{I_{nE} + I_{pE}}$$
$$\alpha = \frac{I_C}{-I_E} = \beta^* \cdot \gamma$$
$$\beta = \frac{I_C}{I_B} = \frac{\alpha}{1 - \alpha}$$