5.2 MOSFETI Viste n- kamalnuli obogateni UgsoLO -1430>0 sinomasau s Sup jimama >dovodimo U(-) da odbijemo e Uhson

- logot sup filmanna u podlos:

edovodimo U(+) *n-kamalni MOSFET-vodi struju

In /m A

44502

> Simboli n-kanalnih

banal pri naponu pv

od podloje p hipa olo kamala ntipa

ostromesani tip

Primyer 1) tox=20×109 m - Noj obnicha U = 400 au / Vs

a) W|L=? b) L=? -> Ca = 20 fF. 6 Uaso = -3V

ID= IMA -> Vas=OV (12 grada) Io = Om A Ugs = Ugso = -31

a) Strymi koeting out K= MCox (L) Cox = Fox = Ea · Eox

Zaricayic. Io= 1/2 (uss-4950)2 $10^{-3} \cdot 2 = K(0+3)^{2}$ $K = \frac{2}{9} 10^{-3}$ $\frac{W}{L} = \frac{\frac{2}{9} \times 10^{-3}}{400 \times \frac{60 \text{ Go/x}}{400}}$ -7 W = 3.22 X10 12

isortkano = Nema kanala uz UGB = OV obojaceni tip

UZ UGS>UGO

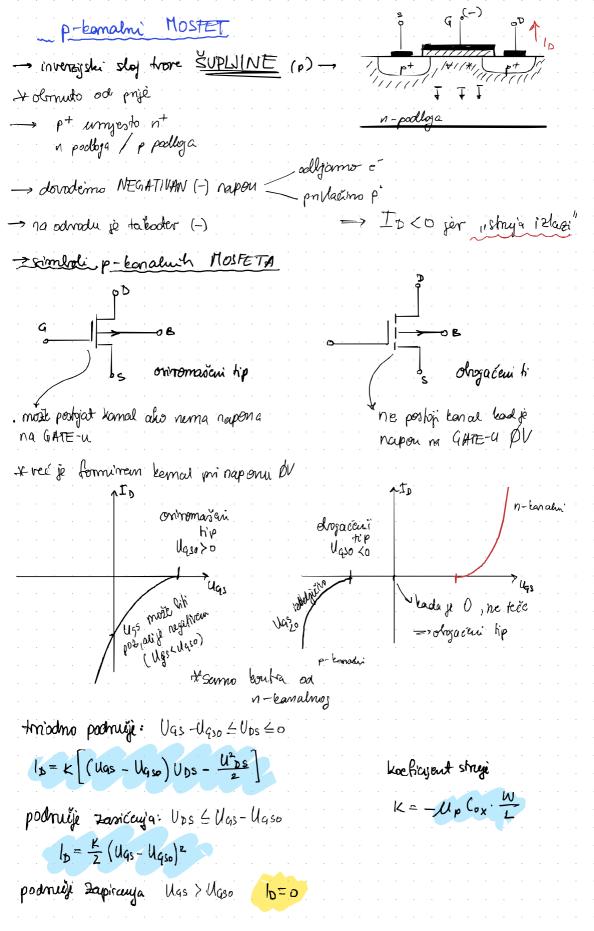
- odbajamo Ej privlacimo => n, kamalni traveistori: Un 400 al/Vs * Vast, Ist - n komaeni b) L=? Cg=Cox·W·L electr.

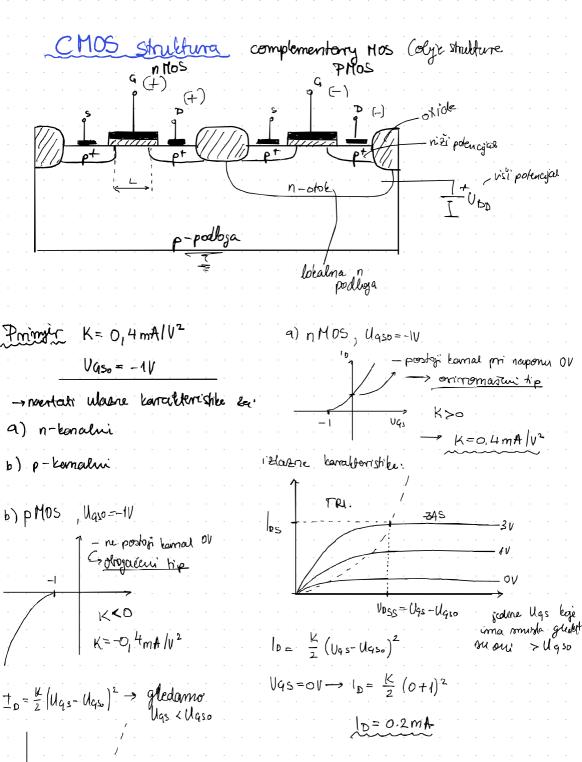
Ugso (0 - sirromasan suppinam

-dovodimo U(-)

 $L = \frac{C_G}{C_{ox} \cdot W} = \frac{C_G}{C_{ox} \cdot 3_1 22 \times 10^{12} \cdot L}$ $\frac{C_{G}}{\varepsilon_{0} \cdot \varepsilon_{0x}} \cdot 3_{122x} \cdot 5^{R}$ $L = \begin{cases} \frac{20 \times 10^{45}}{60 \times 0.0} & \frac{20 \times 10^{45}}{100 \times 0.00} \end{cases}$

L=1.9 juin





-3V

-2V Was: u serp/racyc bando je Une > Vrso!