

if $K_P = 0.4 \times 10^{-5} \frac{A}{V^2}$

P. 5
EE302
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$K_M = 0.8 \times 10^{-5} \frac{A}{V^2}$

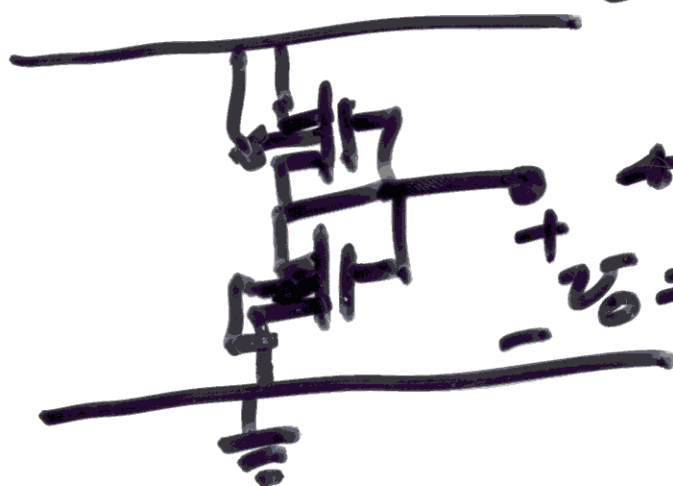
then
$$W_P = \frac{0.8 \times 10^{-5}}{0.4 \times 10^{-5}} \cdot \frac{L_P}{L_M} \cdot W_M \times \frac{1}{2}$$

$$W_P = \frac{L_P}{L_M} \cdot W_M$$

if choose $L_P = L_M$ then

$W_P = W_M$ to give $V_D = 2V$

$V_{DD} = 5V$



$I_D = 0$ (assumed for $I_{SP} = I_{DN}$)