

EE 421 / ECG 621

Lecture 5

Sept. 9, 2015

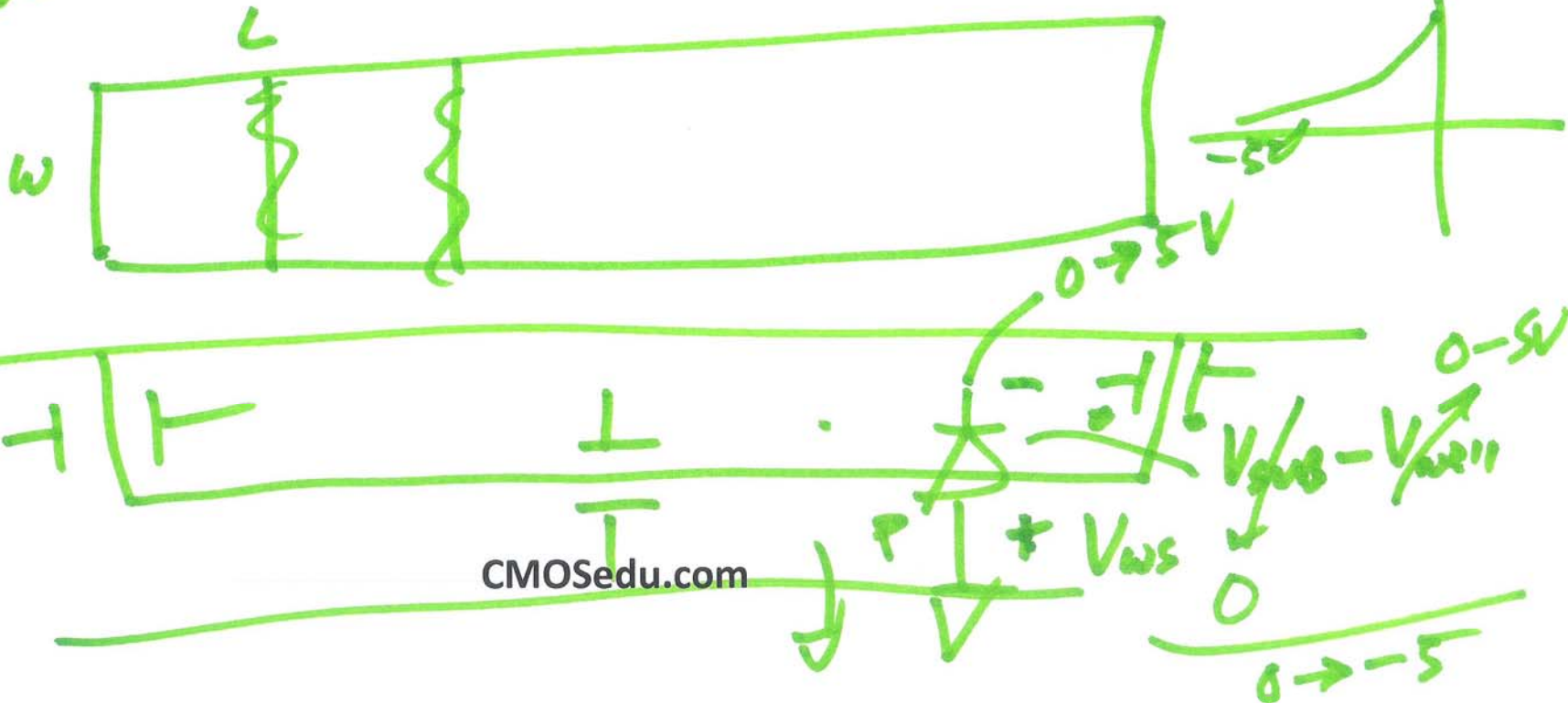
$$\frac{I}{IOA} = C_B$$

$$C_{sw} = \frac{C_{jsw} \cdot R}{2L + 2w}$$

$C_{ox} + C_B$
LAYOUT

QUESTIONS!

$$C_{bottom} = \frac{C_{job} \cdot A}{\left(1 + \frac{V_{ws}}{V_J}\right)^n}$$



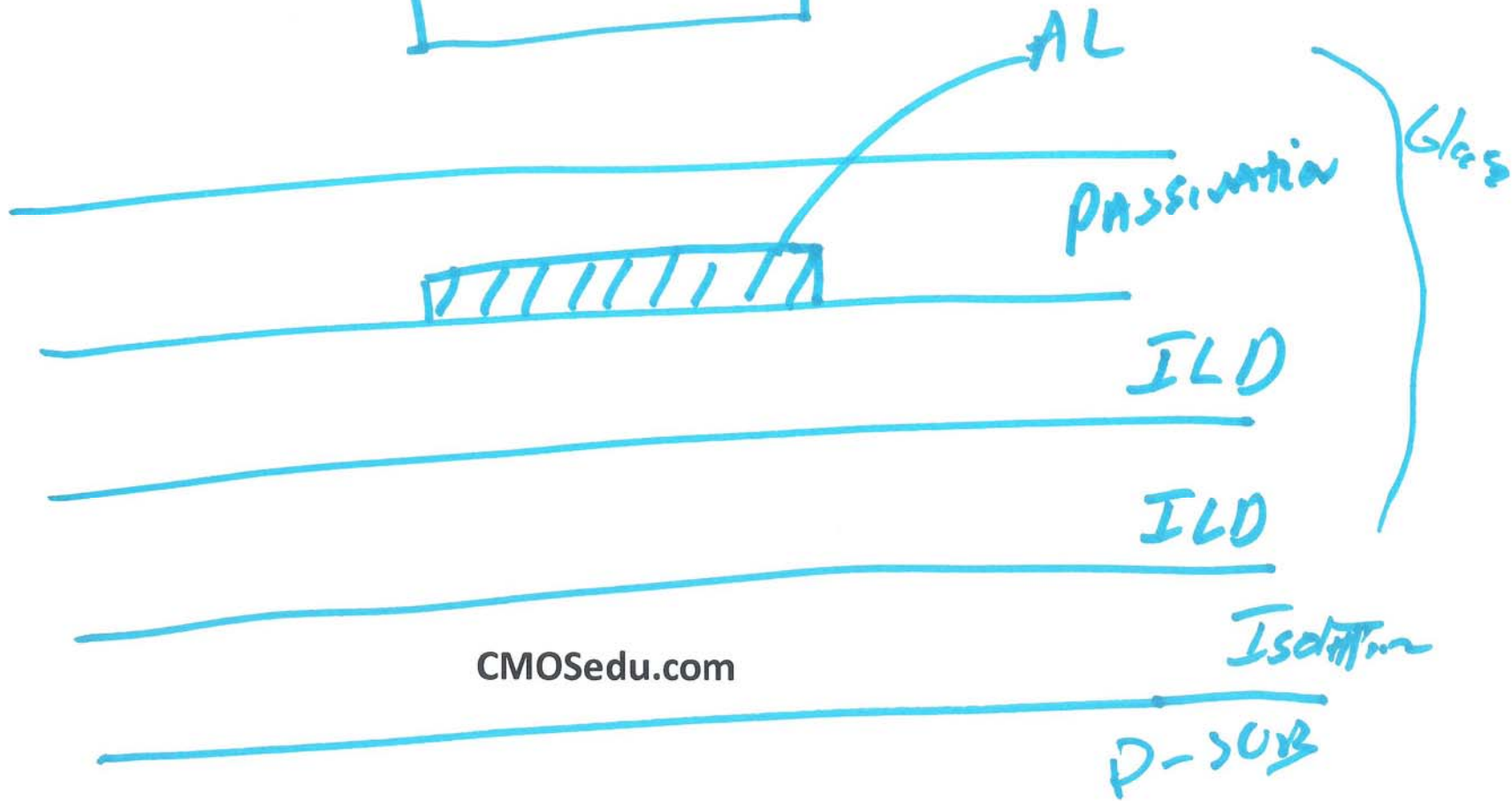
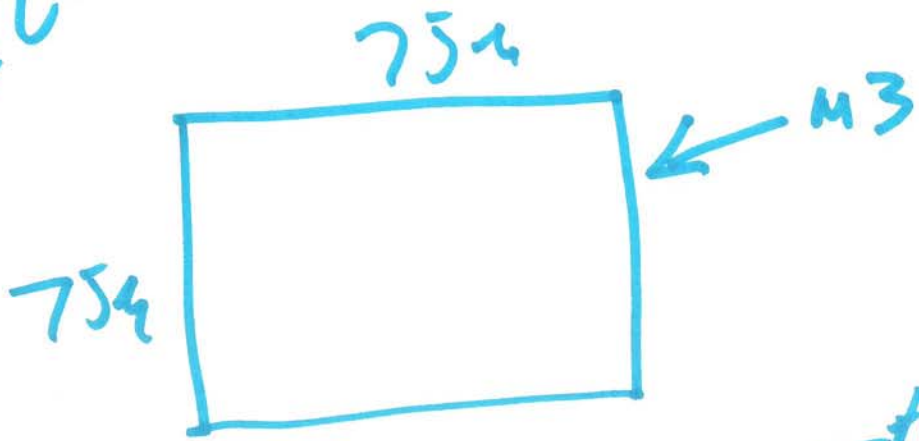
1)

Bond PAD

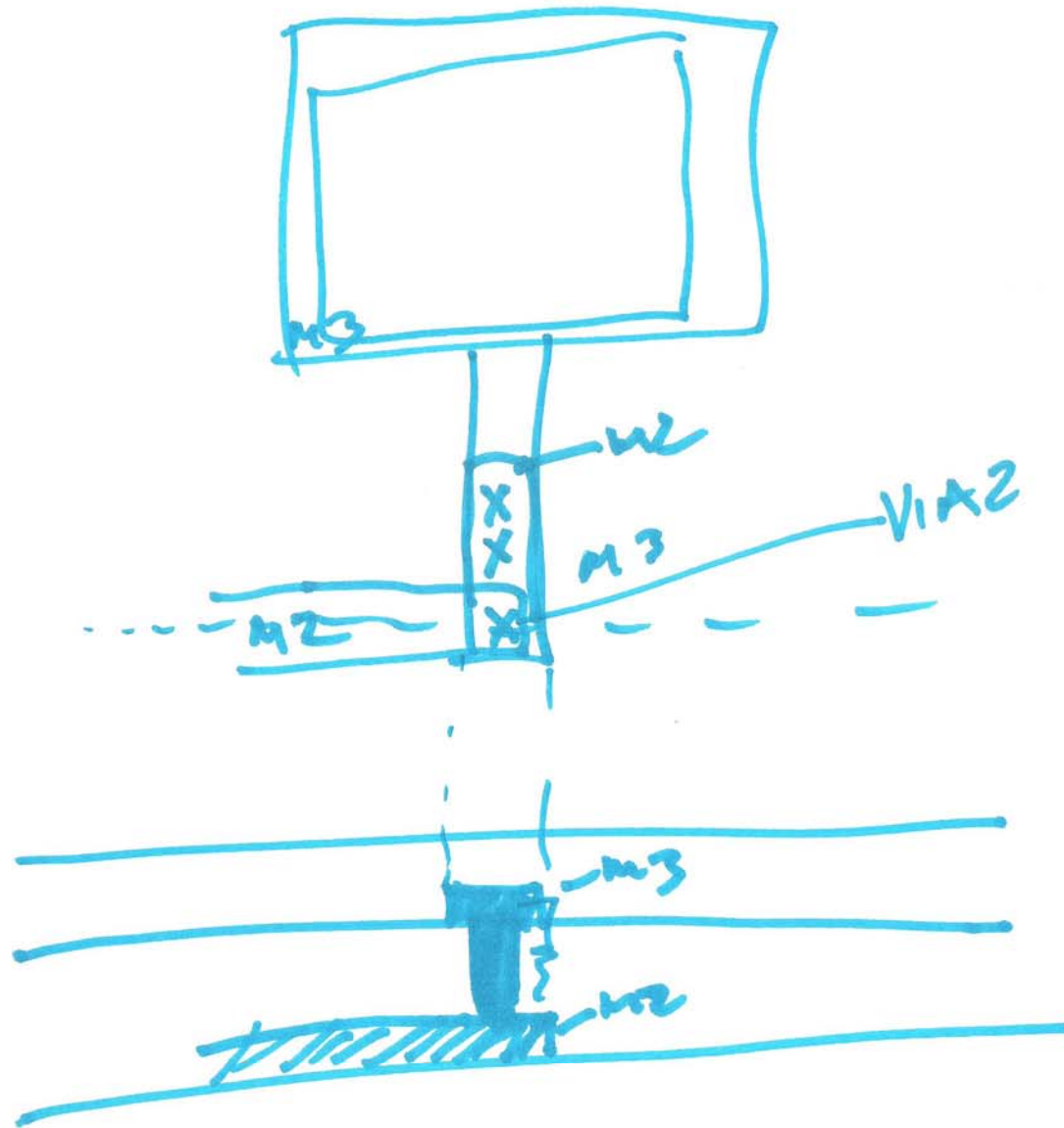
$$754 \mu = 0.34 \cdot x$$

$$x = \frac{754}{0.34} = 250 \text{ Metal layers}$$

M3
N-well

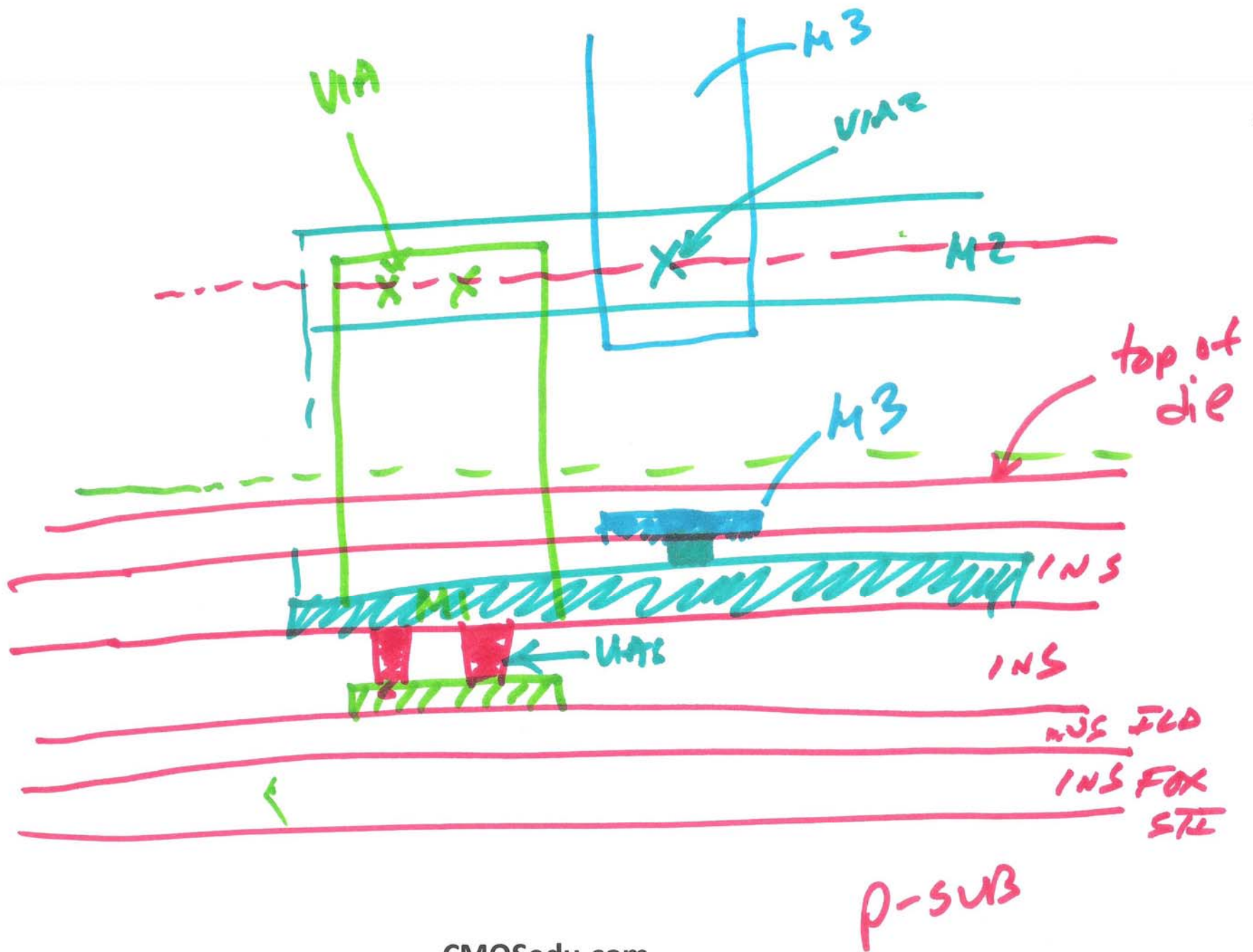


2)

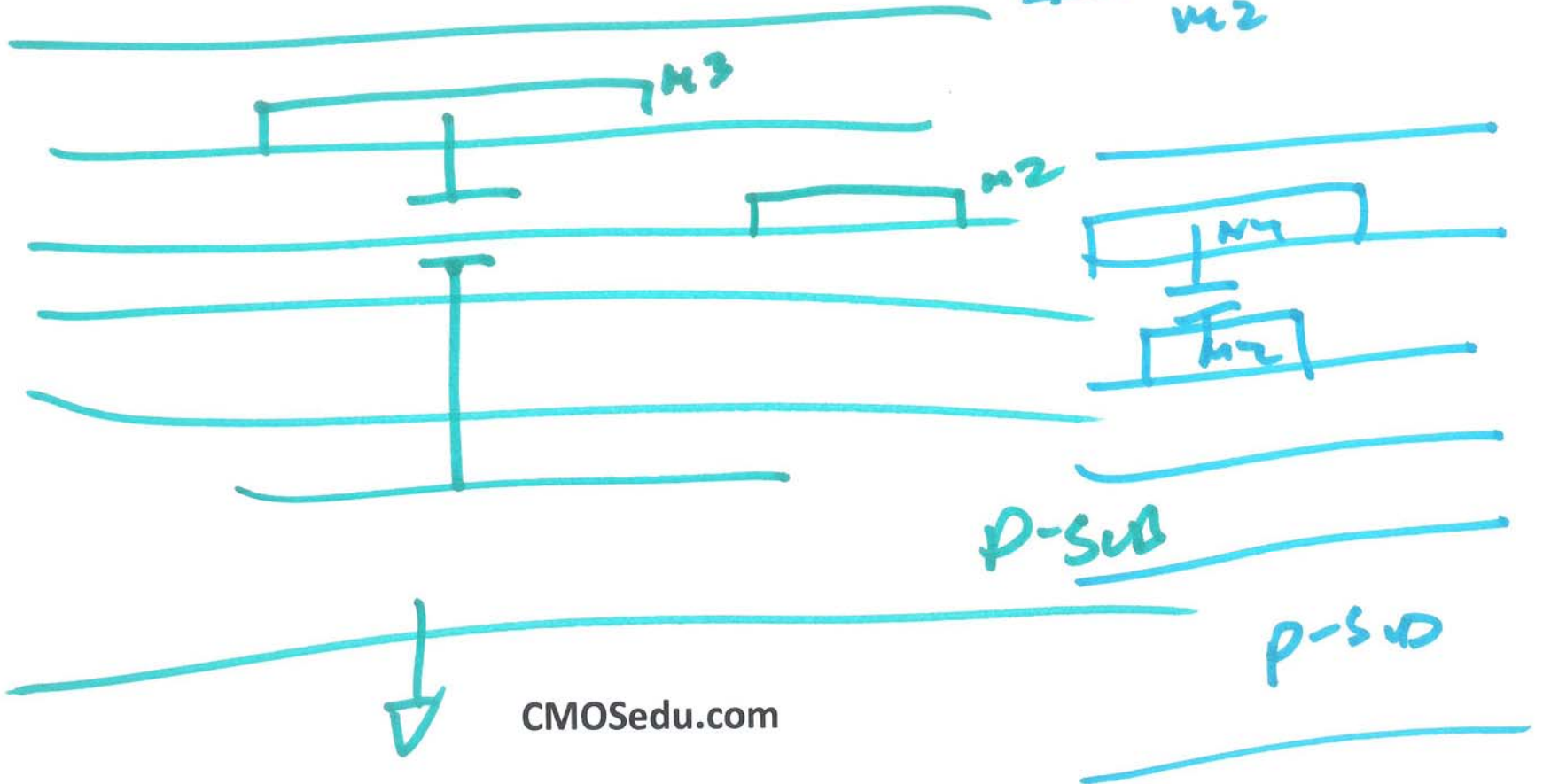
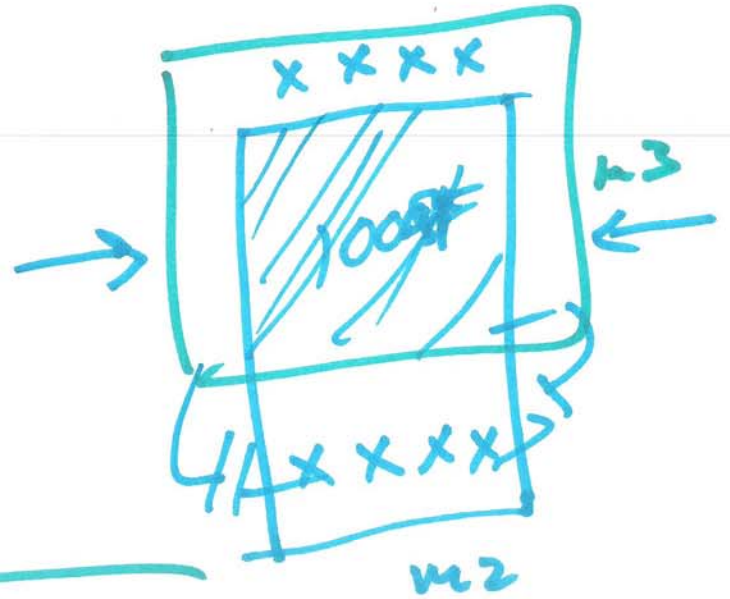
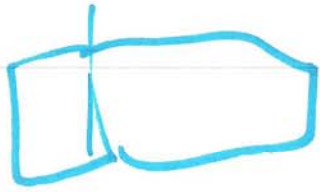


CMOSedu.com

4)



partial fen



6)