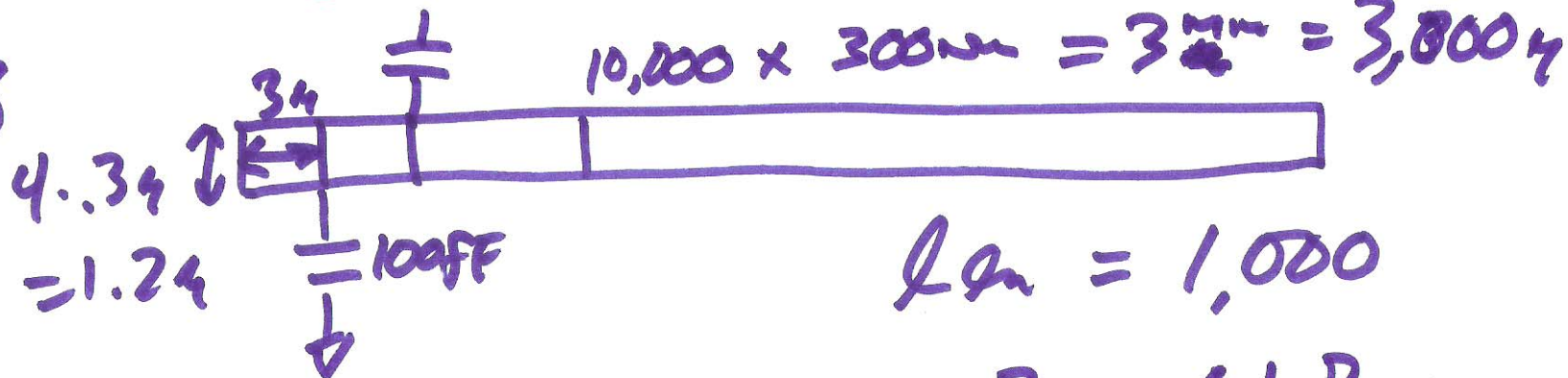


EE 421 / ECG 621

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Lecture 8

A3.8



$$f_m = 1,000$$

$$t_d = 0.35 \cdot 100\text{fF} \cdot .25 \cdot (1,000)^2$$

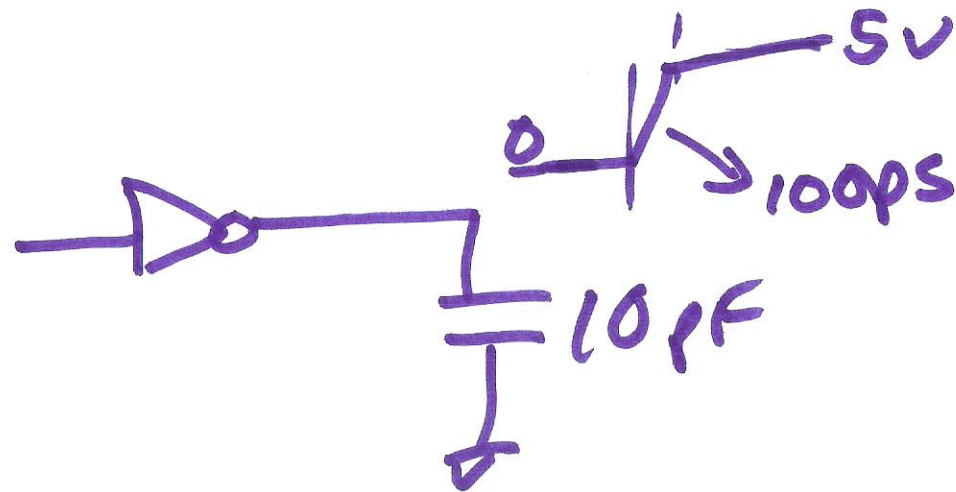
$$= 6.35 \cdot 100\text{p} \cdot 250$$

$$t_d = 8.75\text{ns}$$

$$R = \frac{3\text{k}\Omega}{1.24} \cdot 0.1\frac{\Omega}{\square} = .25\Omega$$

$$R_{\text{TOTAL}} = 250\Omega$$

$$C_{\text{TOTAL}} = 100\text{pF}$$

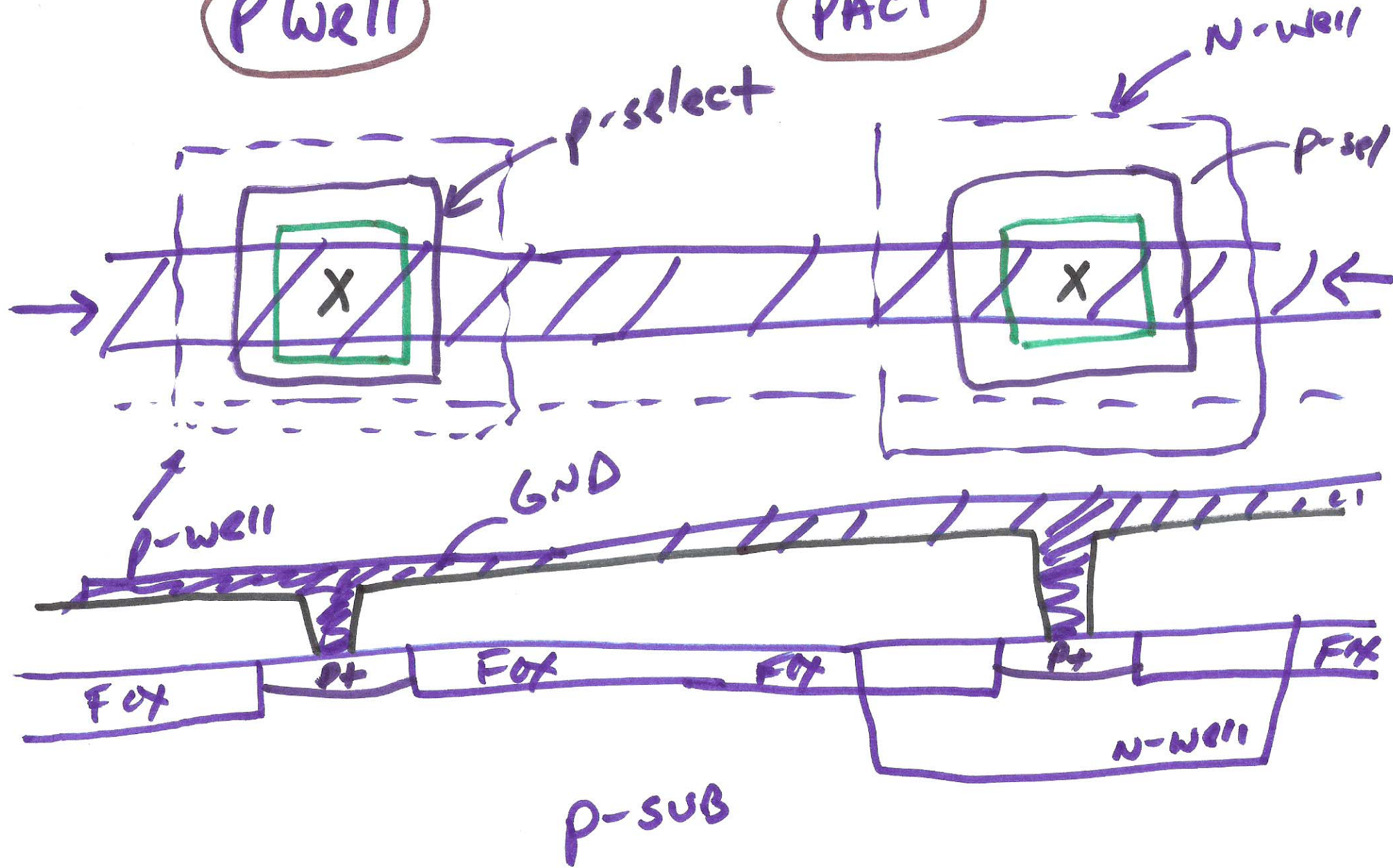


$$I = 10\text{pF} \cdot \frac{5}{100\text{ps}} \\ = 500\text{-A}!$$

2)

Pwell

PACT



3)

