

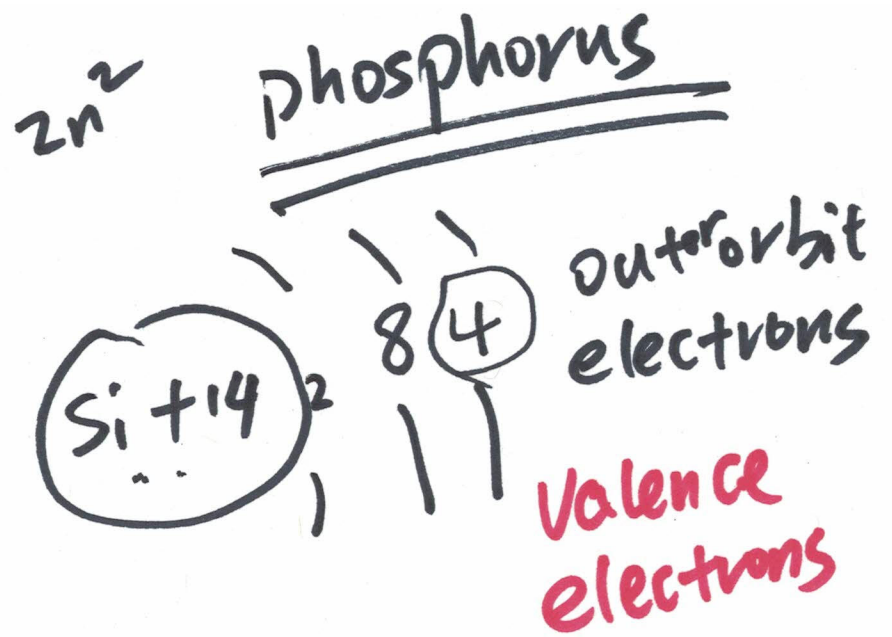
Conductor: Copper.

Insulator: Glass

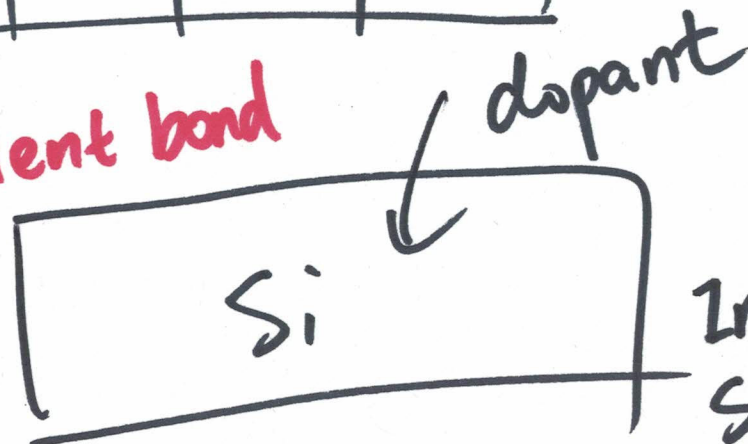
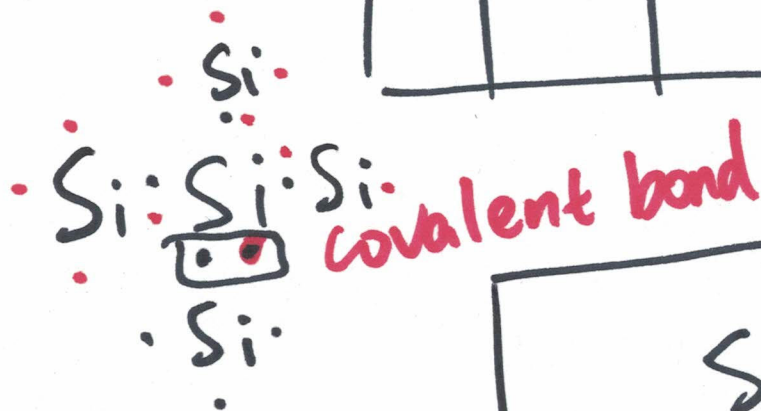
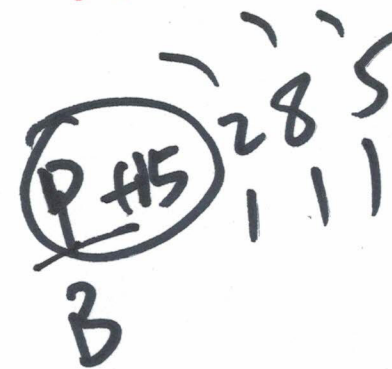
Semiconductor:

Group: III IV V VI

	6 C	7 N	8 O
	<u>14</u> Si	15 P	
31 Ga	32 Ge	33 As	

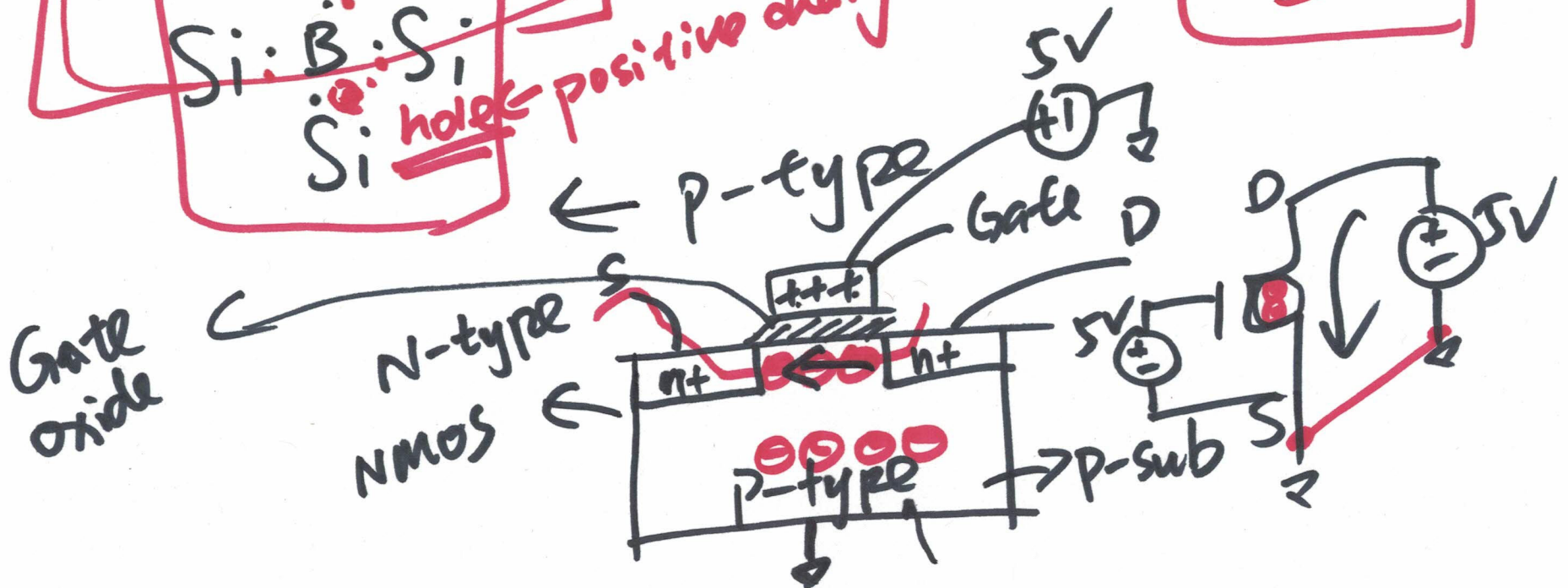
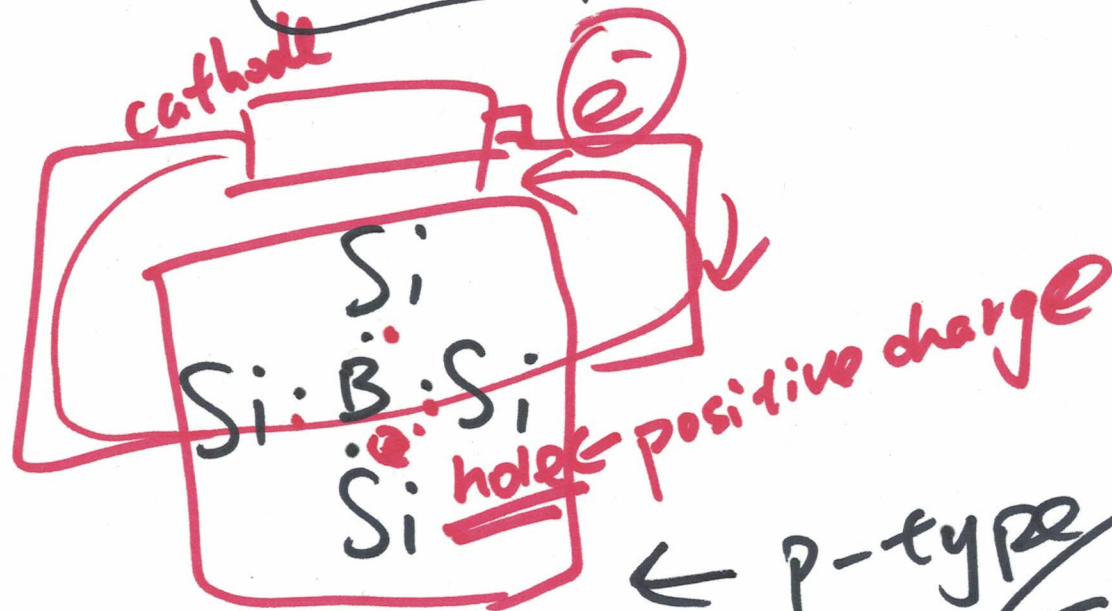
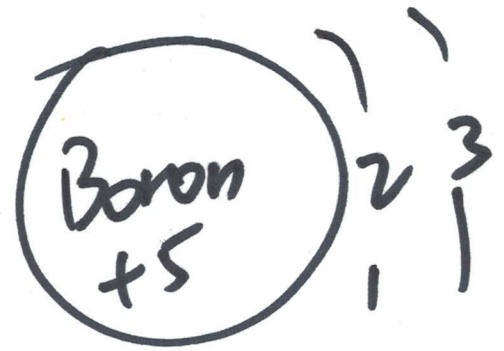
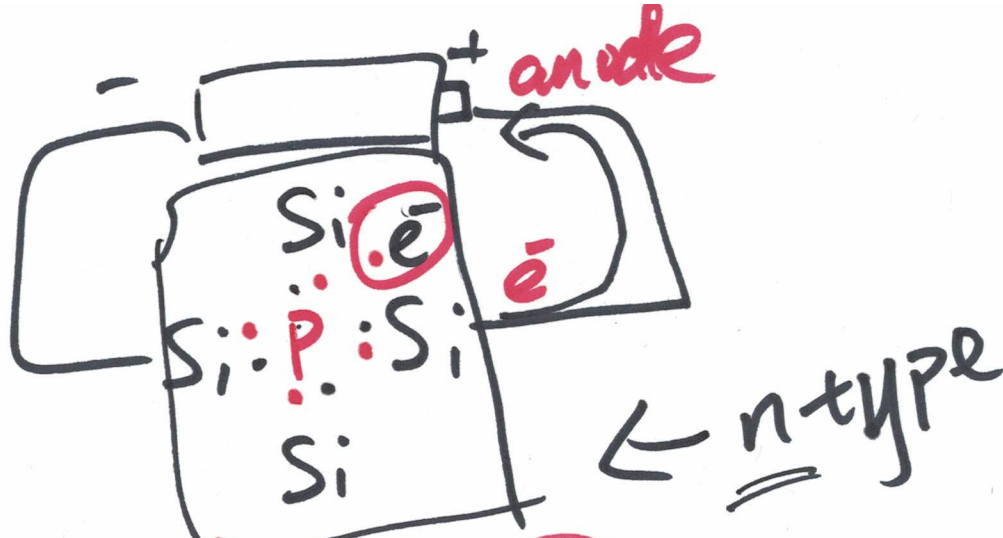


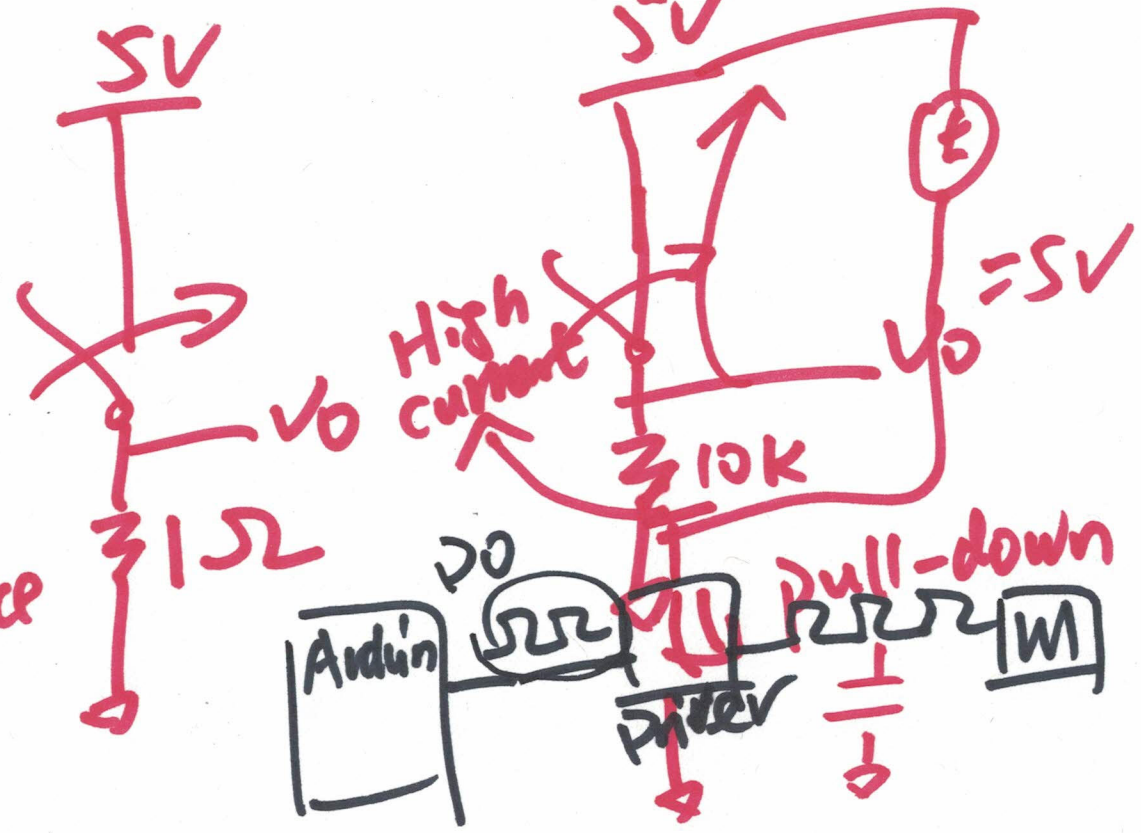
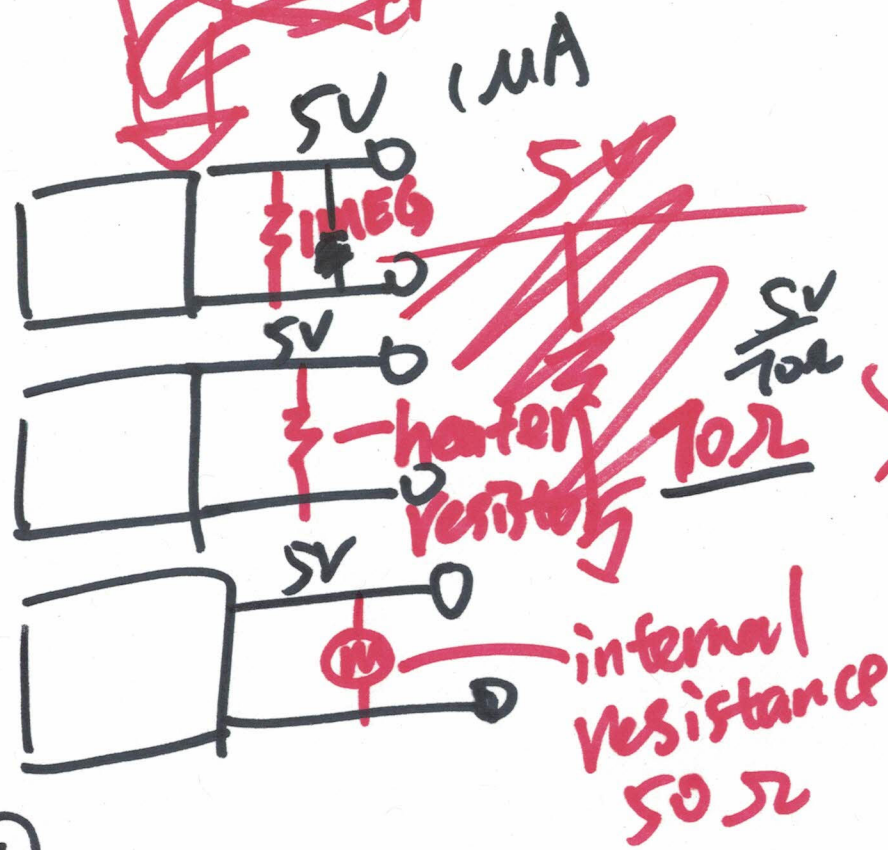
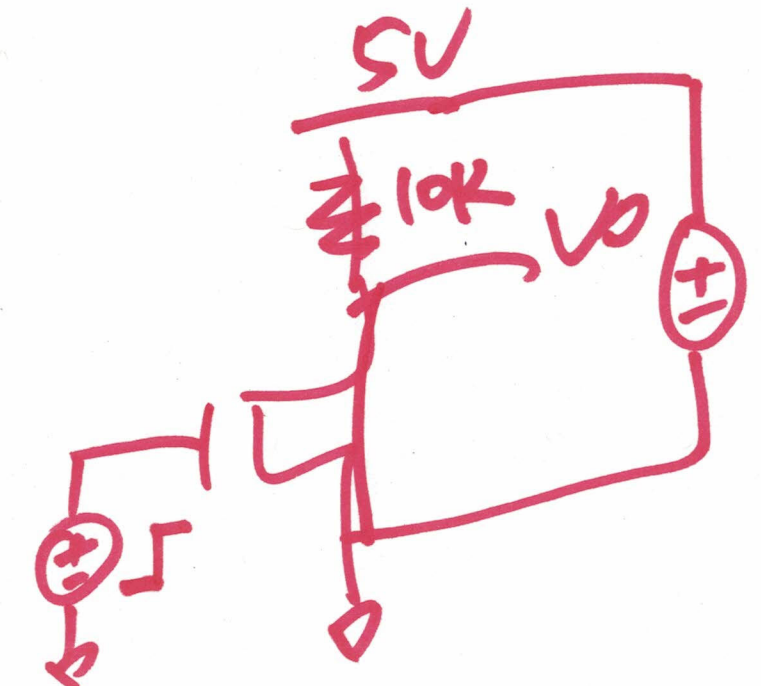
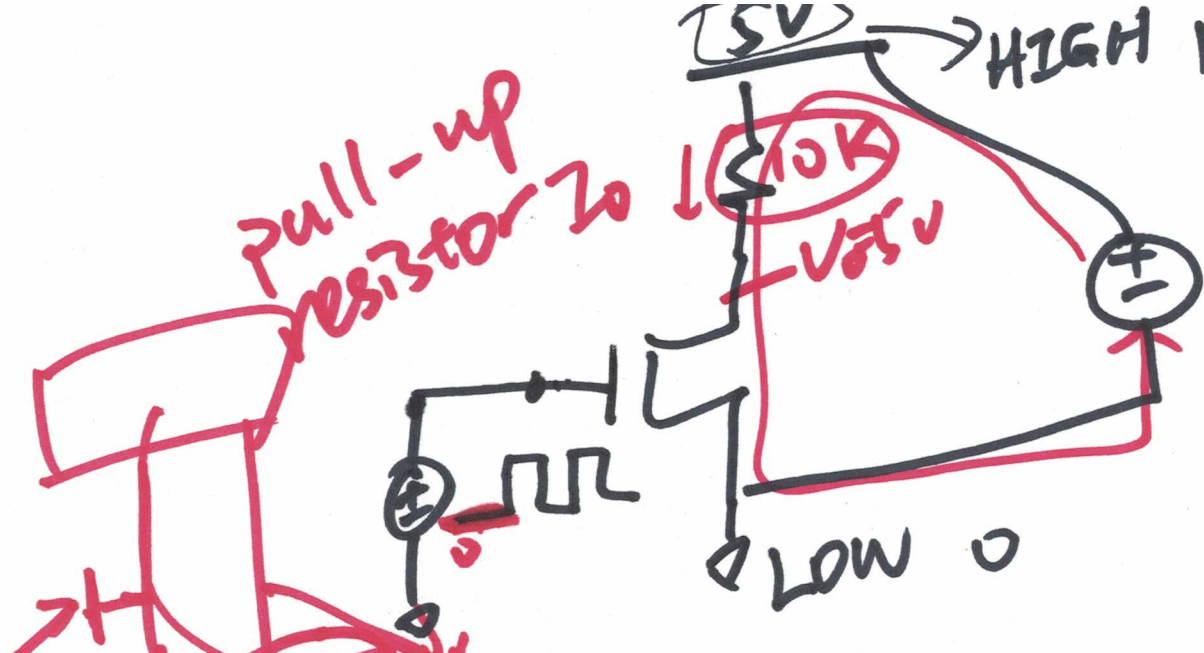
involved in chemical bonds



Intrinsic
Si

p type
n type

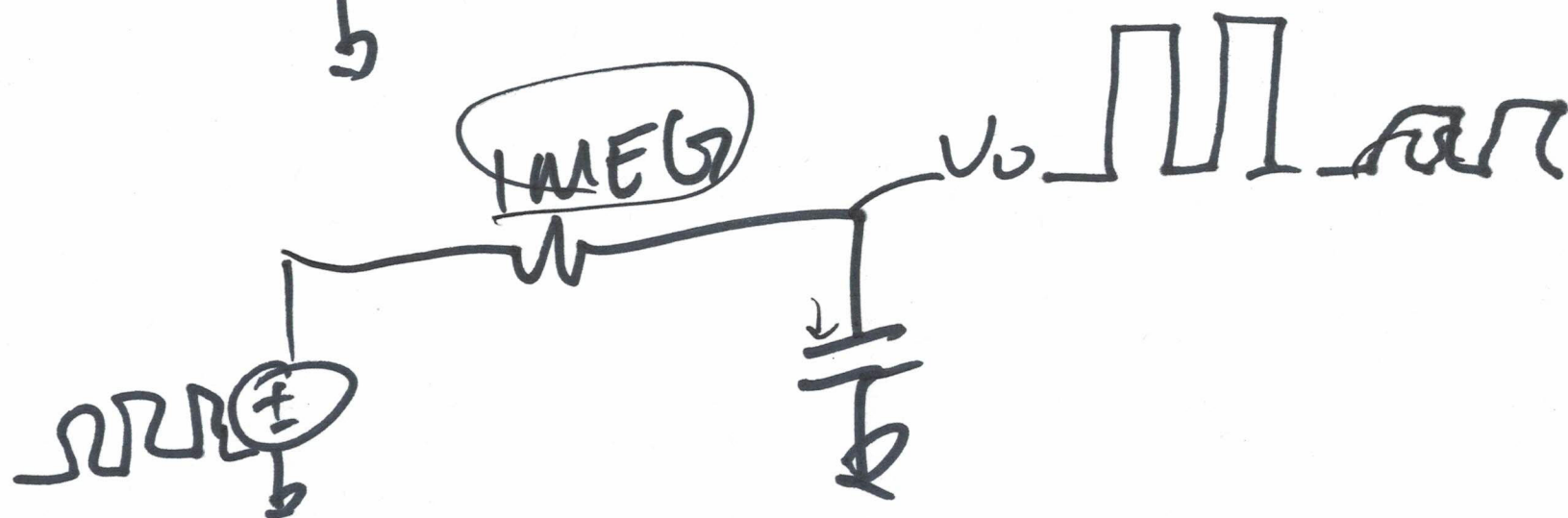




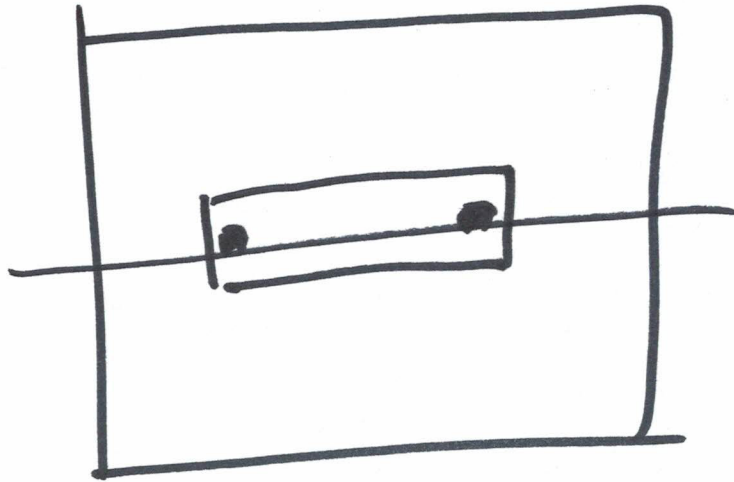
3



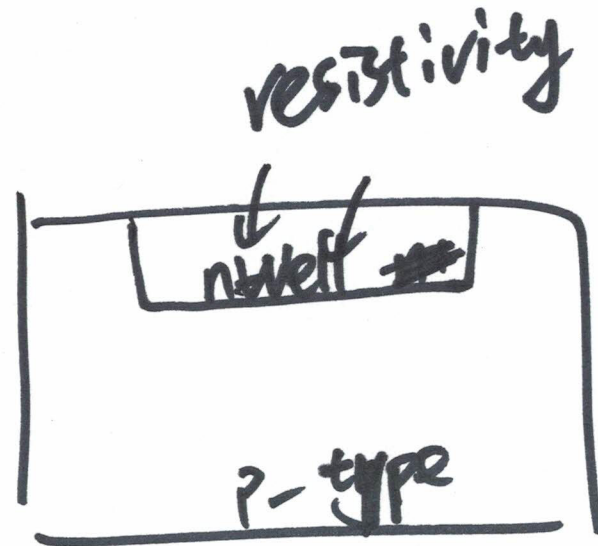
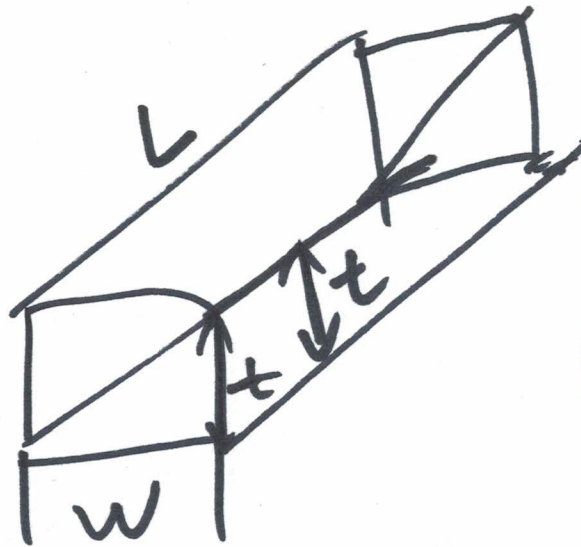
∞



Φ



Top



$$R = \rho \frac{L}{t \cdot w \cdot A}$$

$$R = \rho \frac{L}{A}$$

$$\Rightarrow R = \cancel{\rho} \frac{L}{t} \frac{\rho}{t} \left[\frac{L}{w} \right]$$