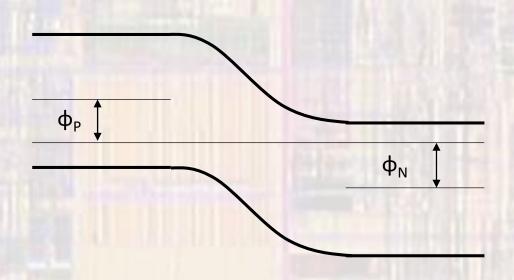
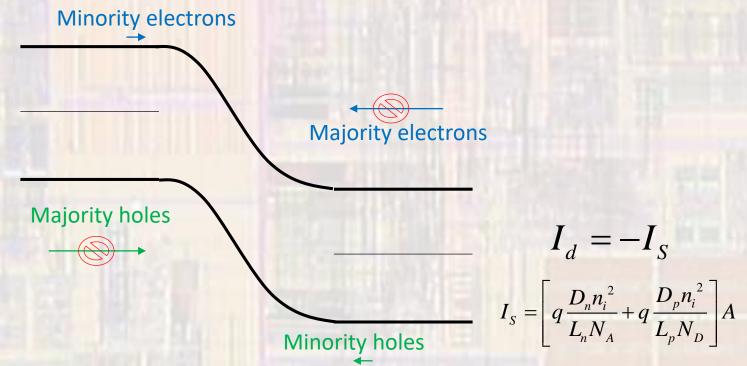
Last updated 3/12/19

- P-N Diode Characteristics
 - No bias



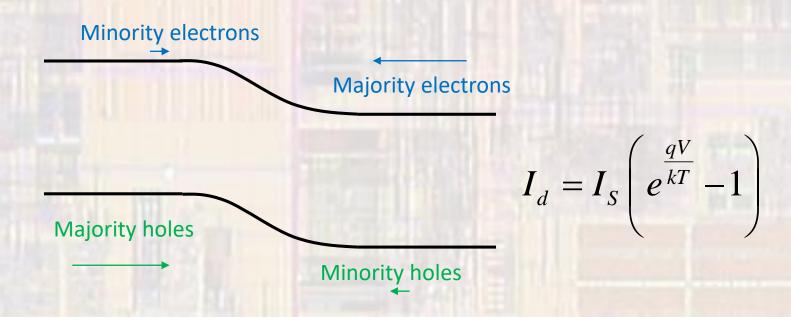
$$\phi_{bi} = \phi_P + \phi_N = \frac{q}{kT} \log \left(\frac{n}{n_i}\right) + \frac{q}{kT} \log \left(\frac{p}{n_i}\right)$$

- P-N Diode Characteristics
 - Reverse bias
 - Minority Carrier concentrations are very small
 - Small reverse bias (leakage) current
 - Majority carriers are blocked by the potential barrier



EE 4981

- P-N Diode Characteristics
 - Forward bias
 - Minority Carrier concentrations are very small
 - Small contribution to current
 - Significant numbers of majority carriers have enough energy to traverse the potential barrier (exponential wrt. bias)



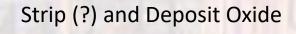


THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	A STATE OF THE RESIDENCE	VEHICLE COLUMN	THE RESERVE
	Photoresist		
SiO ₂			
P-Si			
		計劃	16 12

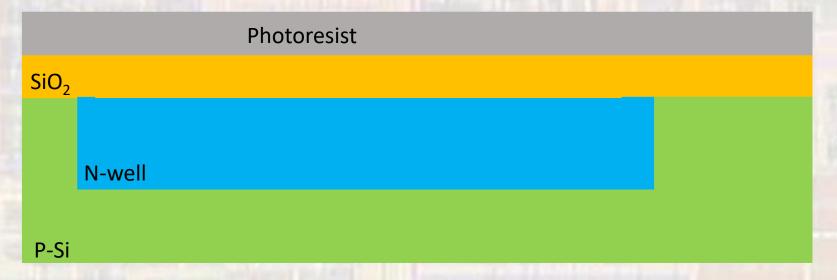
Expose (pattern) and rinse

SiO₂







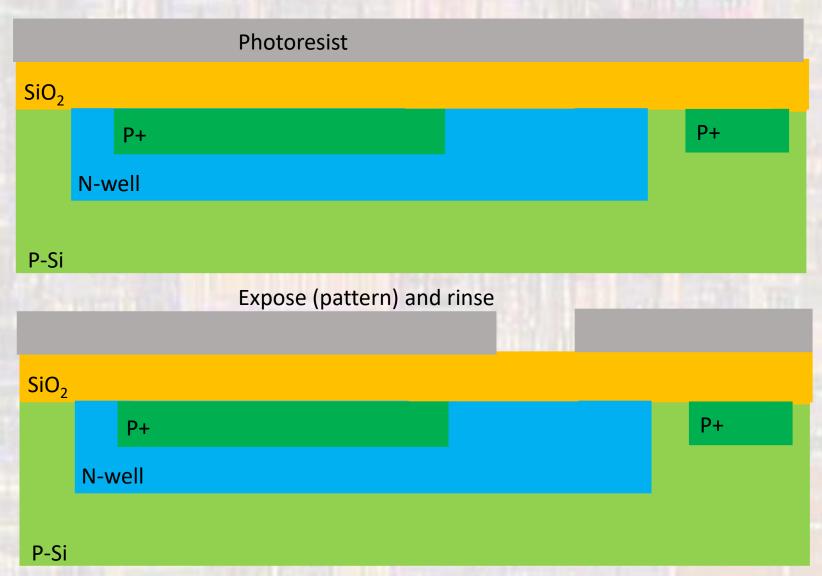


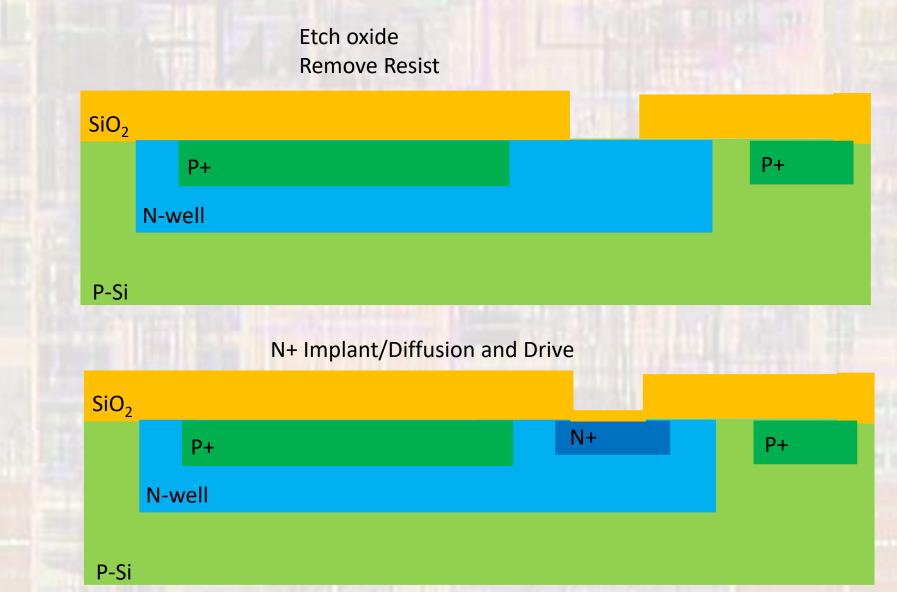


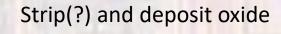
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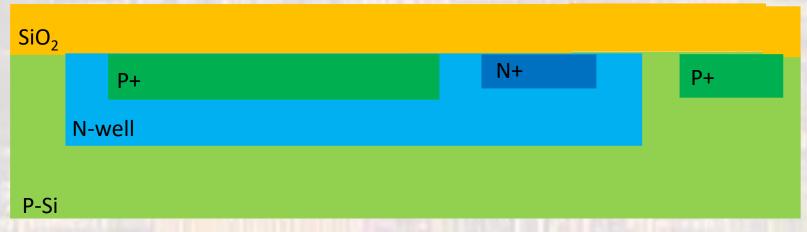
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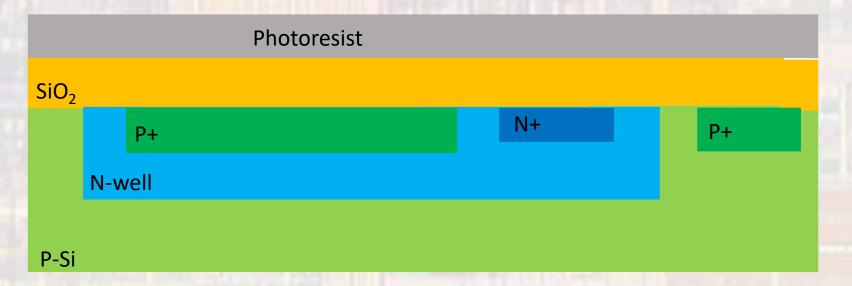


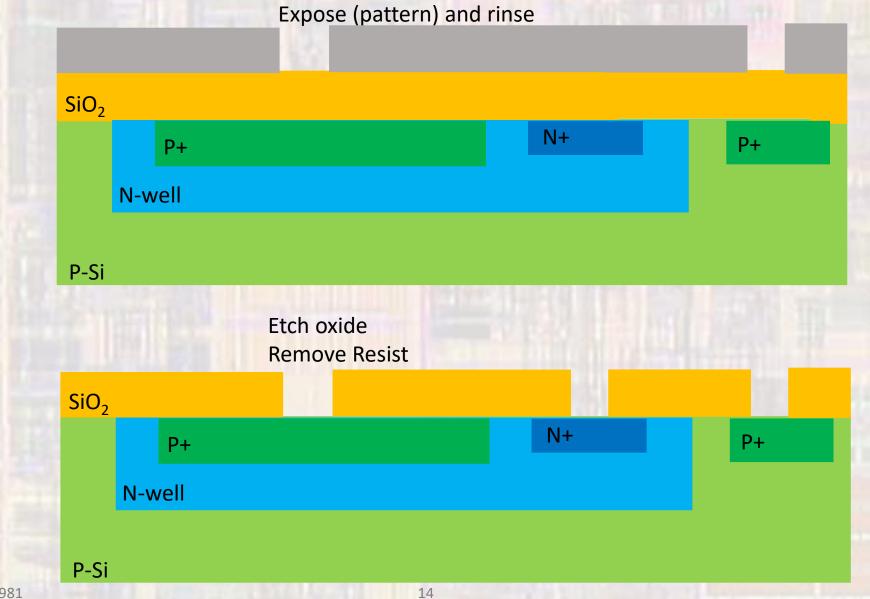


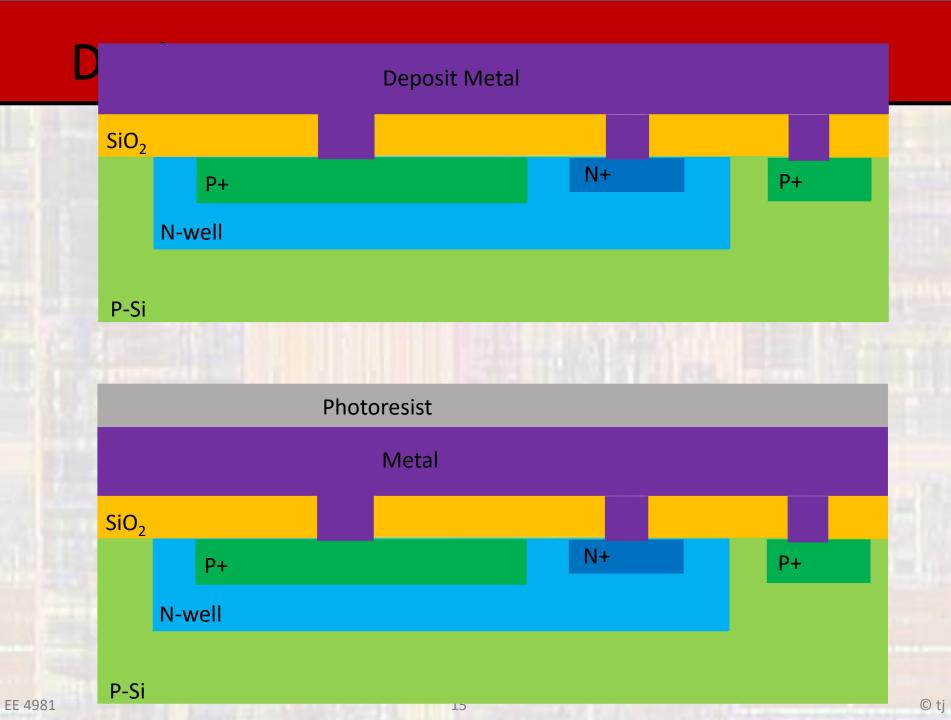








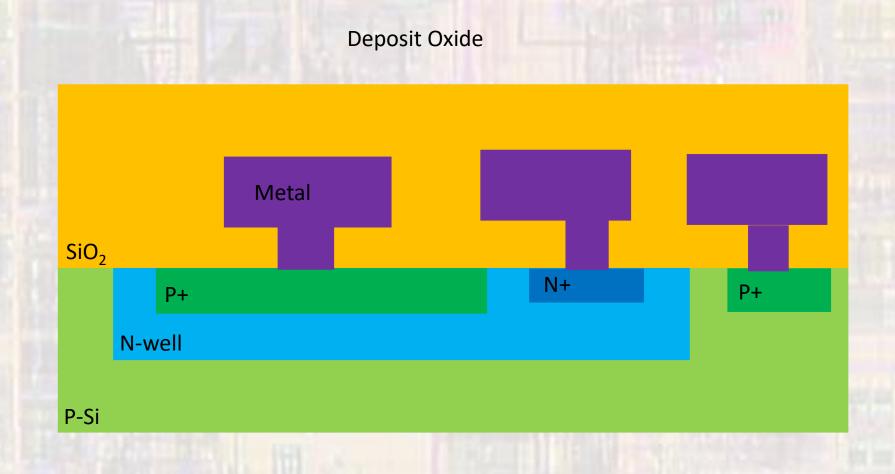






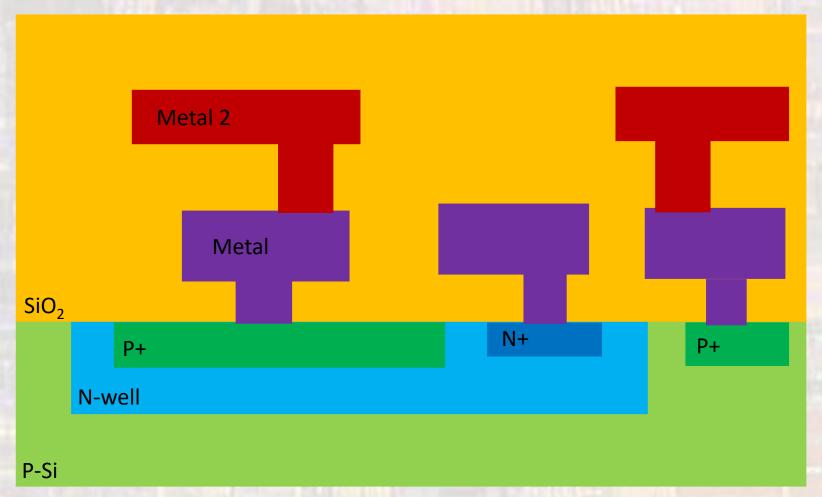
Expose (pattern) and rinse





Resist – Pattern – Rinse – Etch Oxide – Deposit Metal2

Resist – Pattern – Rinse – Etch Metal2 – Deposit Oxide



Resist – Pattern – Rinse – Etch Oxide – Deposit Metal2

Resist – Pattern – Rinse – Etch Metal2 – Deposit Oxide

