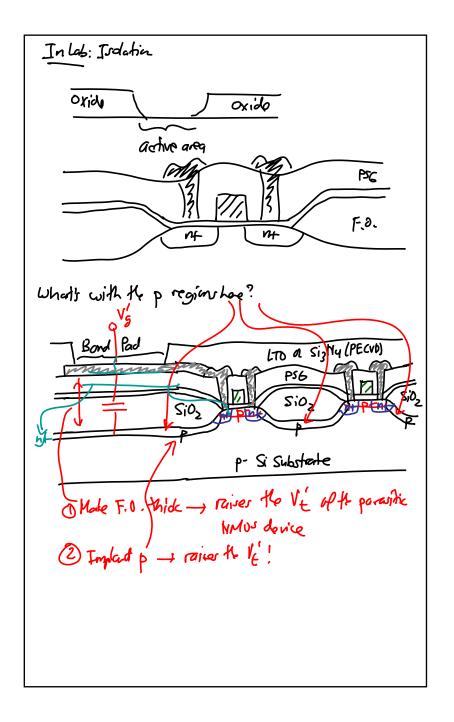
EE 143: Microfabrication Technology

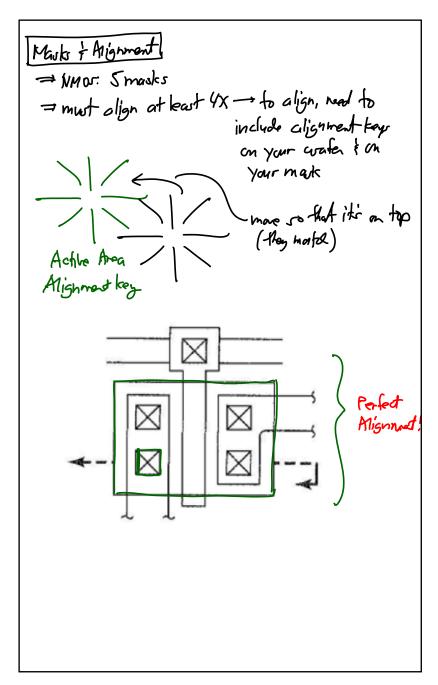
<u>Lecture 7</u>: Lithography I

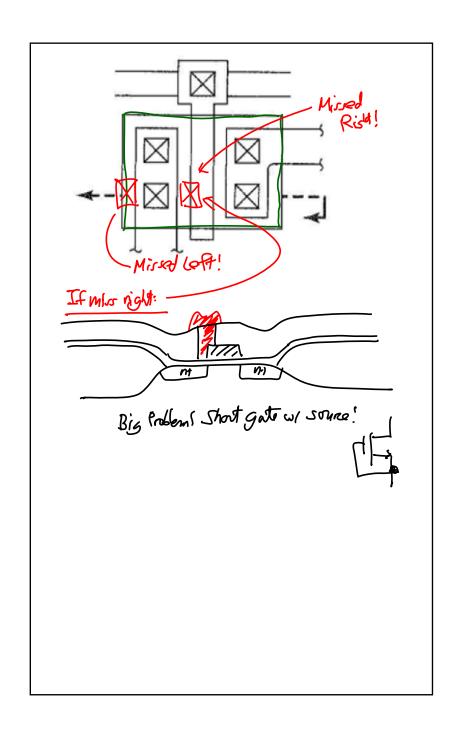
Lecture 7: Lithography I Announcements: ∜ none · Lecture Topics: ♦ Masks & alignment \$Lambda design rules \$ Four main components of lithography -Radiation source - Mask -Photoresist -Exposure system ♥ Resolution ♦ Alignment accuracy Last Time: Go through the last lecture notes Emphasize: \$ Avoid high energy implant into photoresist, since too high an energy can heat the PR up and make it hard to remove \$ Redo the oxide over active area regions after the threshold implant, since the implanted oxide is damaged - this is why the gate oxide is regrown \$p-type implant under the field oxide regions is there to prevent parasitic NMOS device under metal interconnect from turning on \$LOCOS bird's beak helps to reduce topography in going from thin to thick oxide regions



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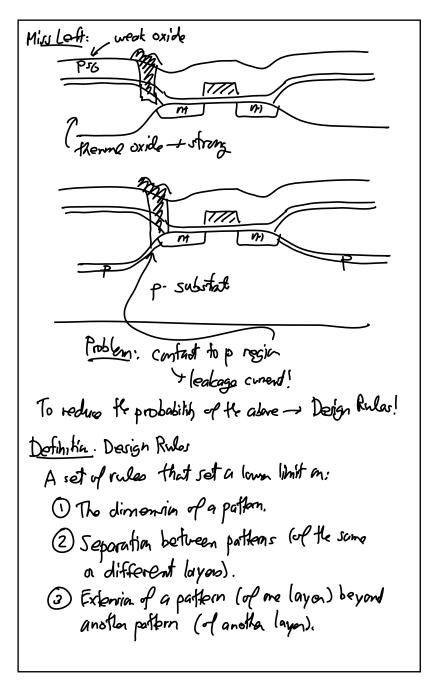


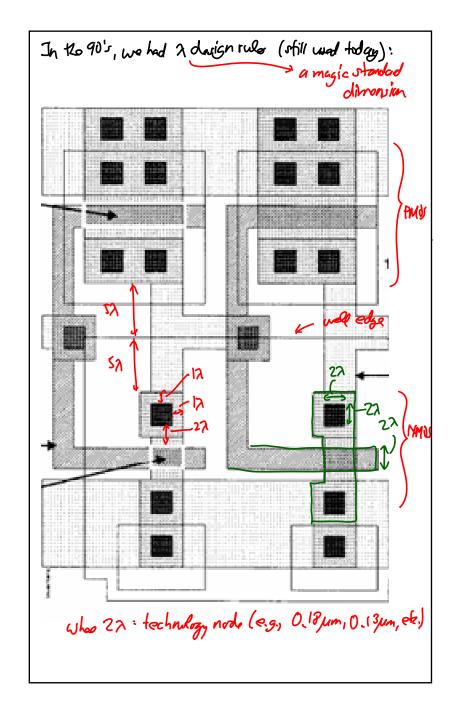


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