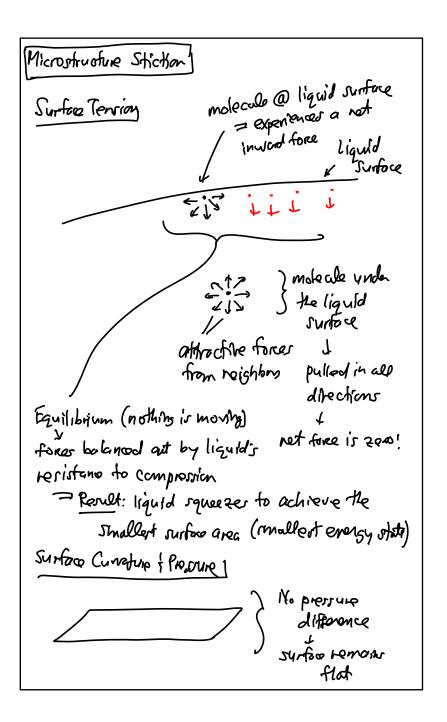
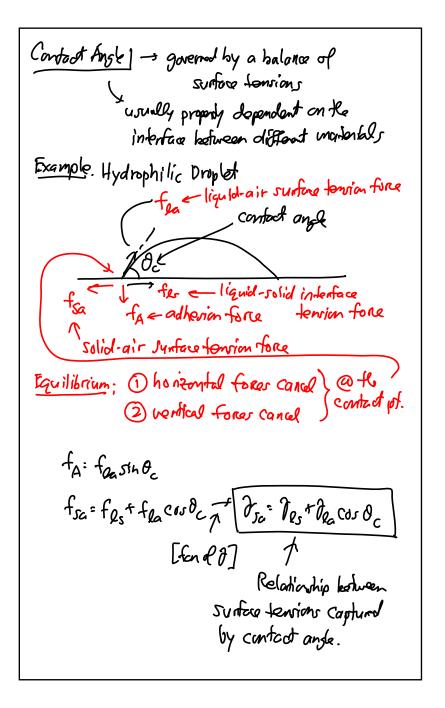
Lecture 10: Surface Micromachining I

- · Announcements:
- · This is our make-up lecture for Thursday
 - For those who couldn't make it, the video will be online as usual
- · HW#3 online
-
- Today:
- Reading: Senturia Chpt. 3, Jaeger Chpt. 11, Handout: "Surface Micromachining for Microelectromechanical Systems"
- · Lecture Topics:
 - ♦ Polysilicon surface micromachining
 - **♦** Stiction
 - ♦ Residual stress
 - ♥ Topography issues
 - \$Nickel metal surface micromachining
 - \$3D "pop-up" MEMS
 - \$Foundry MEMS: the "MUMPS" process
 - ♦ The Sandia SUMMIT process
- -----
- Last Time:
- Going through Start Module 5 on "Surface Micromachining"



= introduco a distormial pressure: Surface curver to garande a ret normal force to maintain equilibrium against the Young-laples Equation Dp: 7(++++) whome Op = pressure difference 7 = surface tension (fore/longk) Px TRy & radii of curvature



Lecture 10w: Surface Micromachining II

