Lecture 9: Surface Micromachining II/Stiction

- · Announcements:
- This is our make-up lecture from last Thursday's strike
- · HW#2 is due tomorrow night at 7 p.m.
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- · Today:
- Finish surface micromachining process from Module 5
- 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
 - \$\footnote{\text{Foundry MEMS: the "MUMPS" process}}
 - ♦ The Sandia SUMMIT process
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- · Go through initial stiction slides from Module 5











