

Lecture 8: Surface Micromachining I

- **Announcements:**
- HW #2: Due next Tuesday
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- **Today:**
- Finish process modules from Module 4
- 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
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- **Last Time:**
- Going through Module 4 ... continue with this today
- Then go through Module 5 on surface micromachining