Lecture 11: Stress Gradients & Beam Combos

- · Announcements:
- HW#3 online and due Wednesday morning (next week; this is a one week homework)
- · Module 8 on Microstructural Elements online
- · Again, this will be a 2 hour lecture
- Midterm is coming in a few weeks: Thursday, March 19
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- · Reading: Senturia, Chpt. 9
- · Lecture Topics:
 - ♦ Bending of beams
 - Scantilever beam under small deflections
 - Scantilever with residual stress gradient
 - ♥ Combining cantilevers in series and parallel
 - \$ Folded suspensions
 - Special Design implications of residual stress and stress gradients for folded-beam devices
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- Last Time:
- Derived governing expression for beam bending





























