•	Anr	oun	cem	ents:
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· Lecture schedule for the next 4 weeks:

Monday	Tuesday	Wednesday	Thursday	Friday
Oct. 5	6	7	8	9
Lecture	Lecture		Discuss	
5-6:30	3:30-5		3:30-5	
241 Cory	Moffitt		Moffitt	
12	13	14	15	16
Lecture			Discuss	
5-6:30			3:30-5	
241 Cory			Moffitt	
19	20	21	22	23
Lecture	Lecture		Lecture	
5-6:30	3:30-5		3:30-5	
241 Cory	Moffitt		Moffitt	
26	27	28	29	30
Discuss			Lecture	
3:30-5			3:30-5	
Moffitt			Moffitt	
Nov. 2	3	4	5	6
Lecture	Midterm		Lecture	
5-6:30	3:30-5		3:30-5	
241 Cory	Moffitt		Moffitt	

- · Midterm Exam:
 - ⋄ Tu, Nov. 3, during regular lecture
 - ⋄ 1.5 hours, but might go longer
- · HW#5 due Thursday morning at 10 a.m. in the EE245 box

- · Reading: Senturia, Chpt. 10
- · Lecture Topics:
 - **Solution** Energy Methods
 - ♥ Virtual Work
 - **Solution** Energy Formulations
 - ♦ Tapered Beam Example
 - ♦ Estimating Resonance Frequency

Estimating fermance freg.

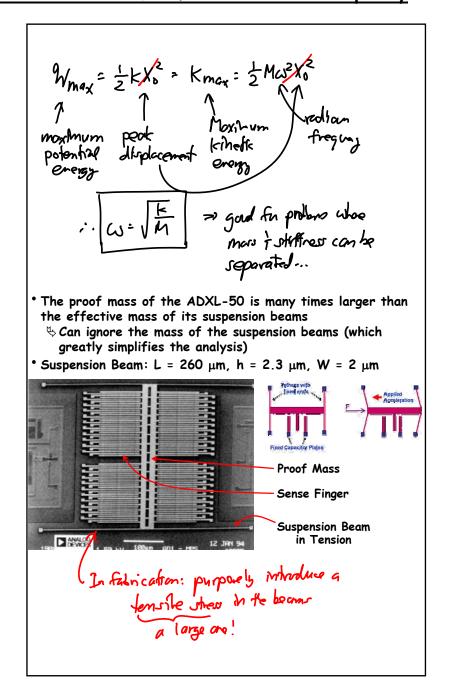


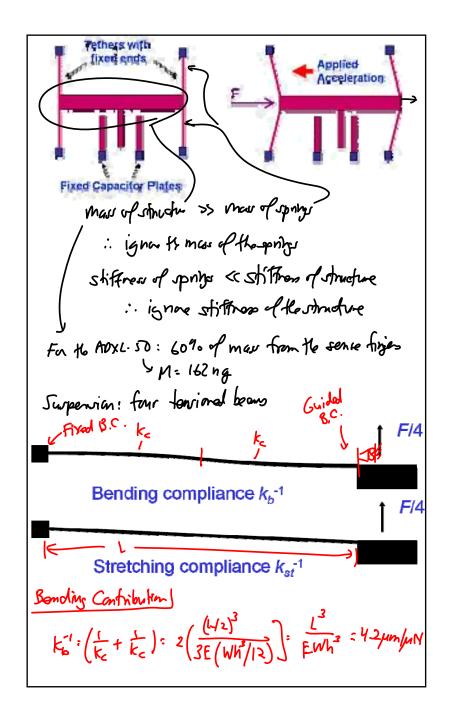
Kitetic Energy

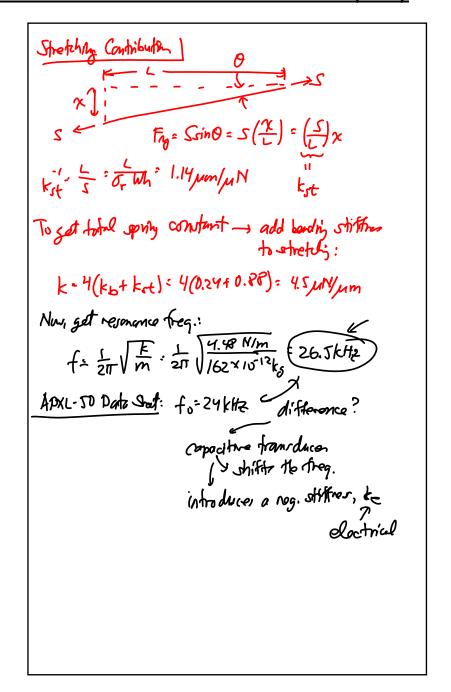
$$K(t) = \frac{1}{2} \frac{\pi \dot{x}^{2}(t)}{1} = \frac{1}{2} \frac{\pi \dot{x}^{2}(t)}{1} = \frac{1}{2} \frac{\pi \dot{x}^{2}}{1} = \frac{1}{2$$

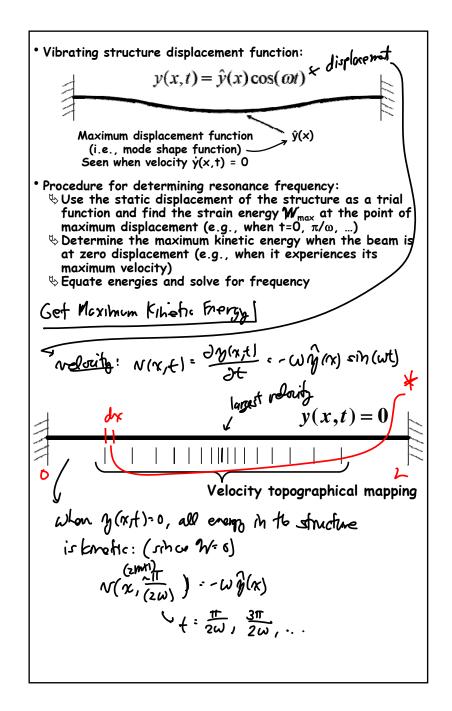
Remodes.

- 1) Energy mut be convened.
- 2) Total Fonergy = Potential Frey, + Kinetic Frong at all times & locations on the structure









EE 245: Introduction to MEMS

