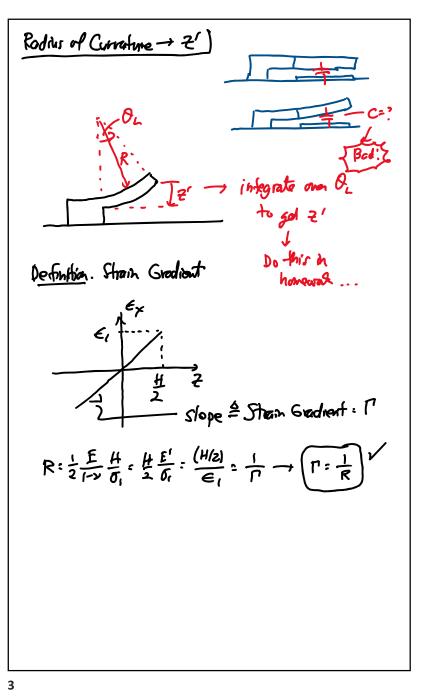
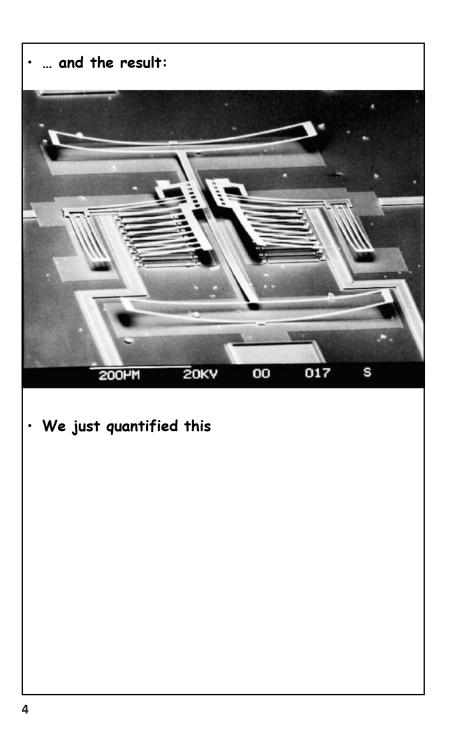


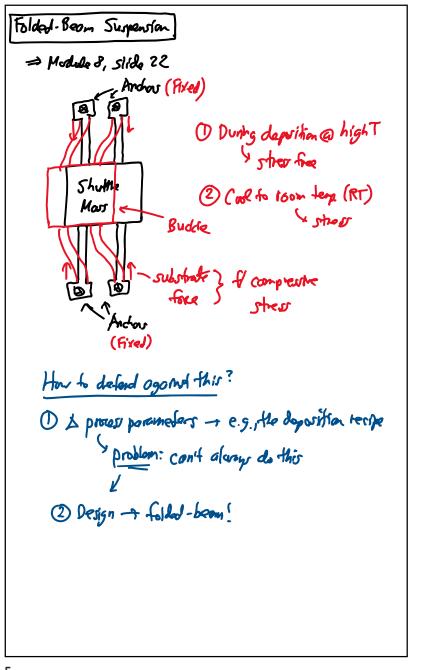
Bending Due to Streer/Strain Gradients Find the radius of Curvature: Prior to telease, oxial stress: 0= 0, - 0, (11)21 2 The internal moment: $N_{\chi} = \int_{-\frac{H}{2}}^{\frac{H}{2}} \left[(W \cdot dz) \sigma \right] \cdot z = \int_{-\frac{H}{2}}^{\frac{H}{2}} W \left(z \sigma_{0} - \frac{\sigma_{1} z^{2}}{(H/2)} \right) dz$ $= W\left(\frac{1}{2}\sigma_{e}z^{2} - \frac{2\sigma_{i}z^{2}}{3H}\right) \Big|_{...}^{H/2}$ $= W\left(\frac{1}{3}\sqrt{\frac{H^2}{4}} - \frac{2}{3}\sqrt{\frac{H^2}{5}} - \frac{1}{3}\sqrt{\frac{H^2}{4}} - \frac{2}{3}\sqrt{\frac{H^2}{5}}\right)$ Average stress Concels out $M_{x} = -\frac{\Gamma}{6}\sigma_{i}WH^{2}$ Thur, the radius of curvature: $\frac{1}{R} = \frac{M_{Y}}{ET} \rightarrow R = \frac{E'T}{M_{Y}} = \frac{1}{2} \frac{E'H}{\sigma_{i}}$ 1 Radiur of Bioxial $\left(R = \frac{1}{2} \frac{E}{(1-2)} \frac{H}{\sigma_1}\right) \left(\begin{array}{c} Currentum & \text{for a} \\ Candidam & \text{wig} \end{array}\right)$ Modulur (if Wislord

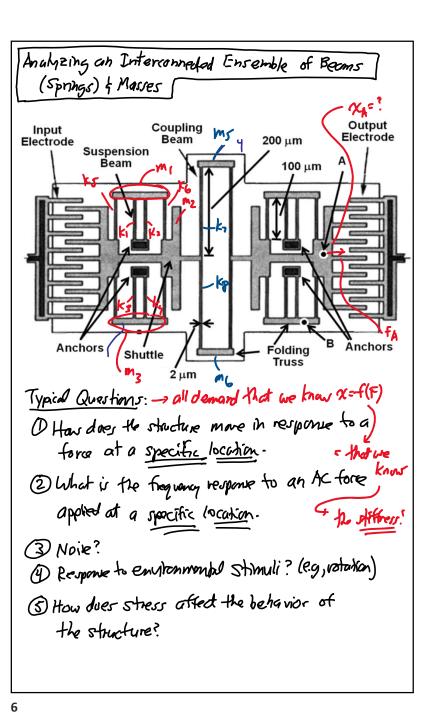
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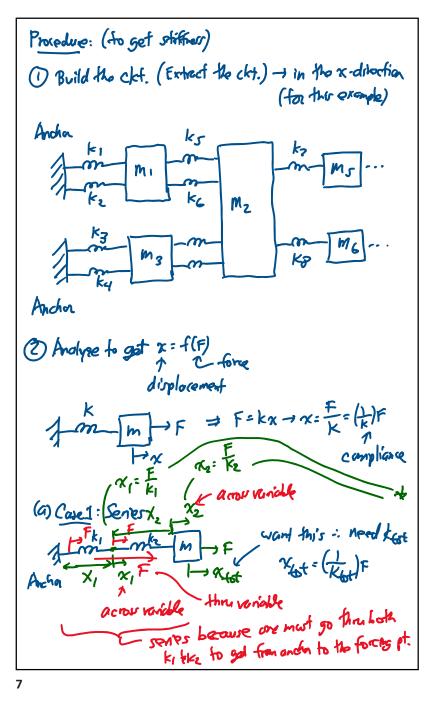


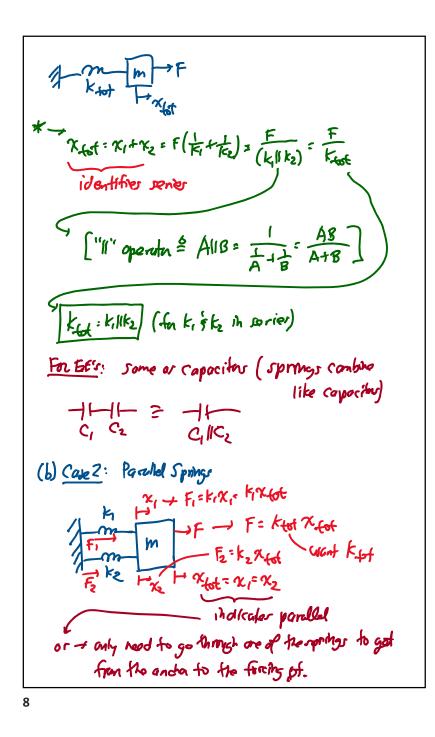


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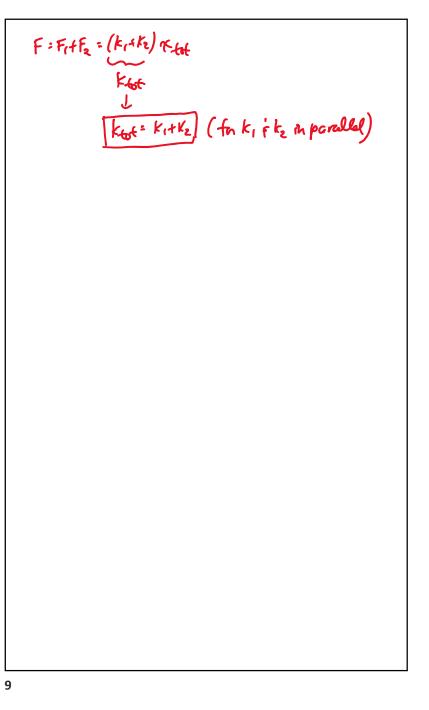
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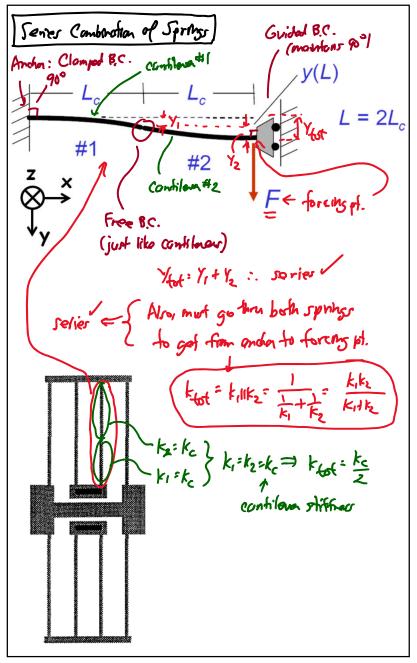




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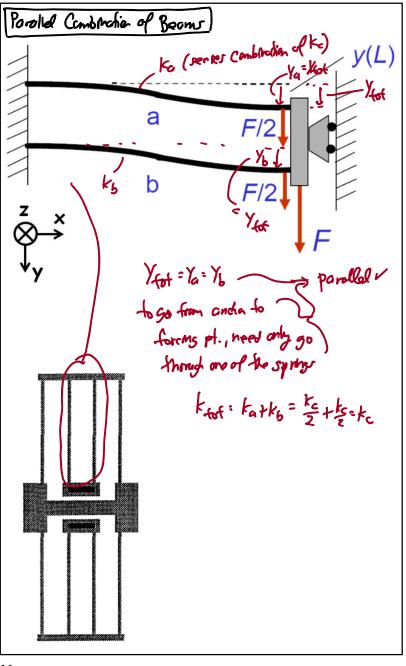
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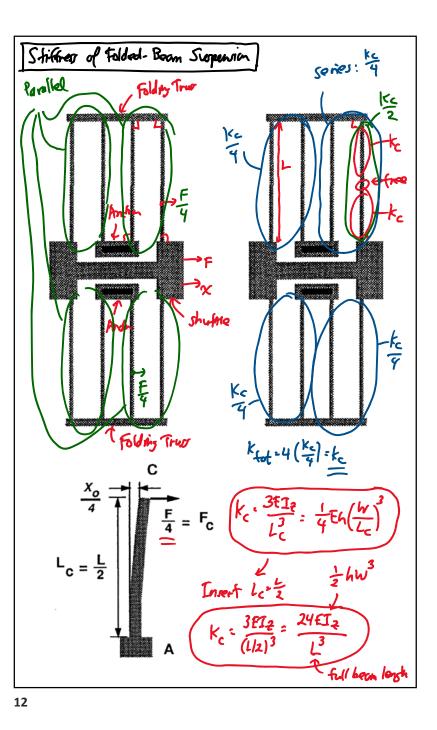




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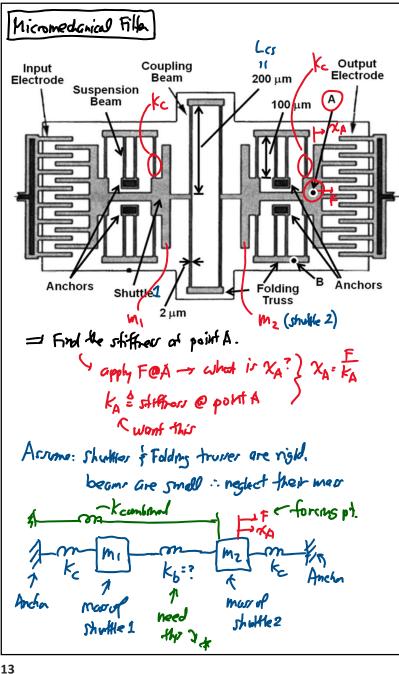
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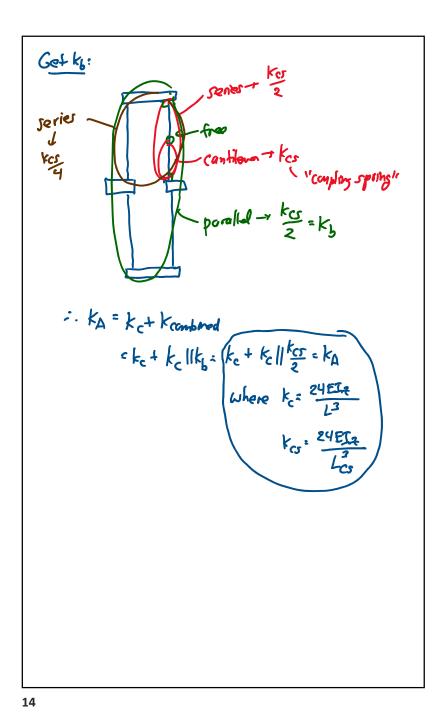




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