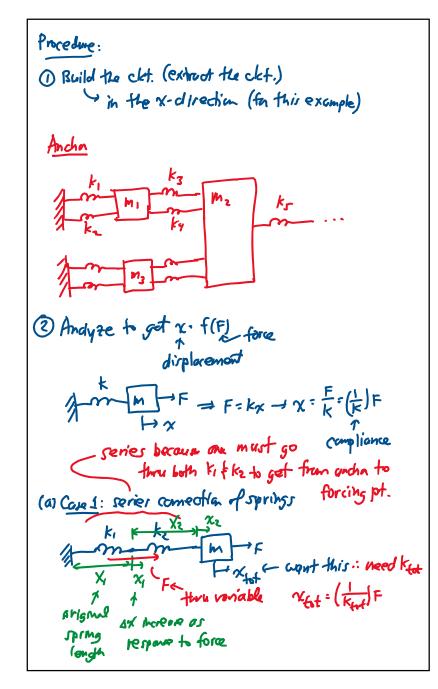
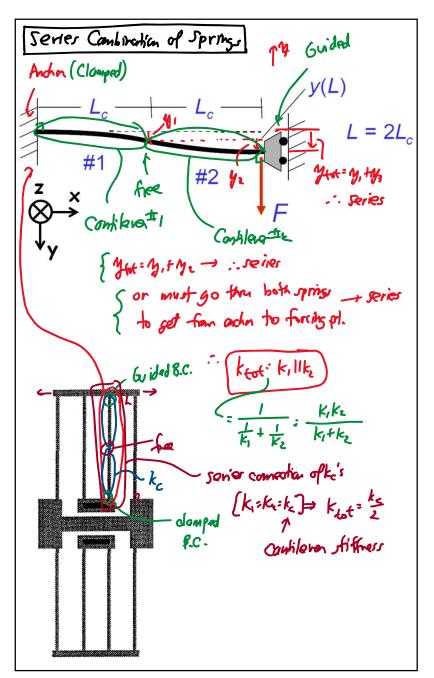
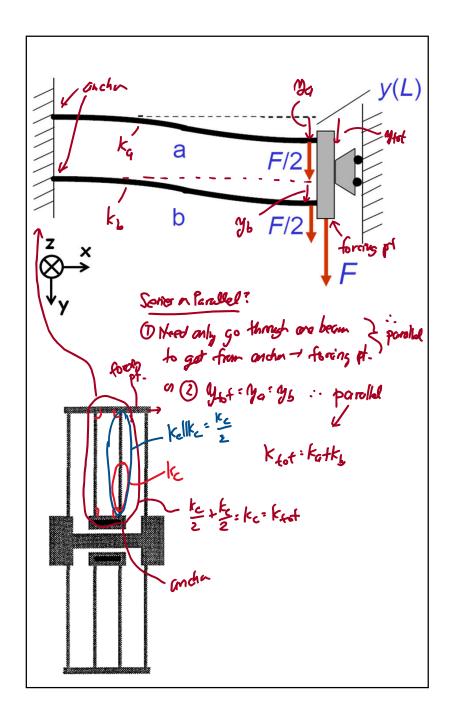


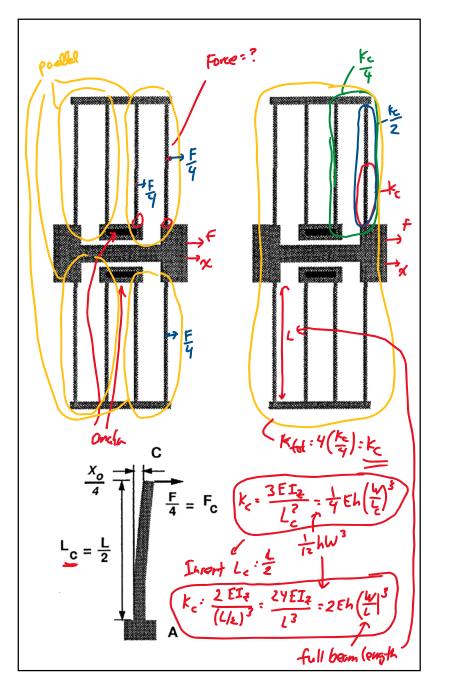
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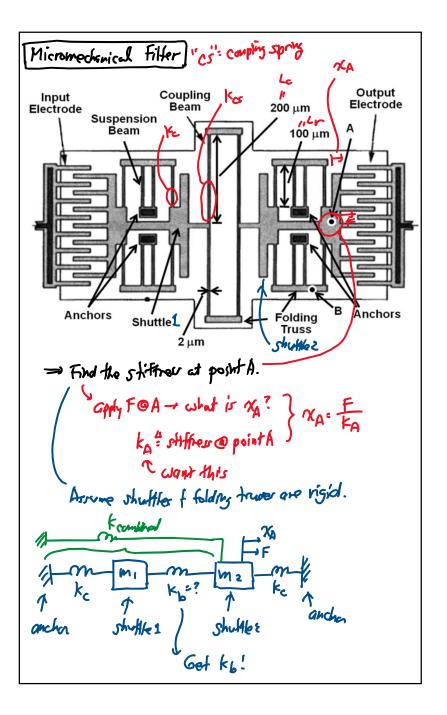


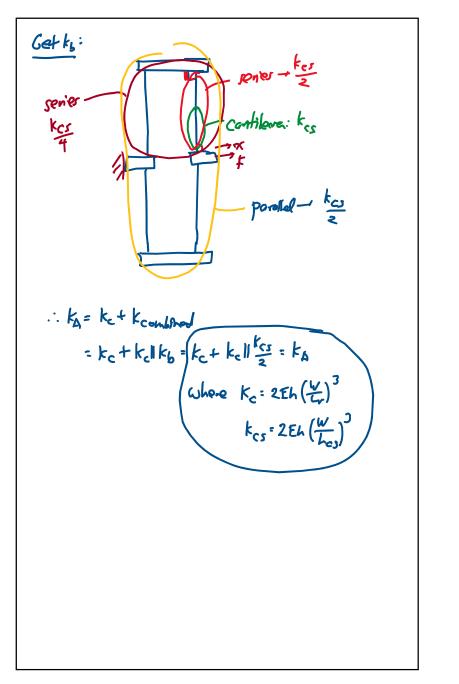
 $\chi_{tot} = \chi_1 + \chi_2 = F(\frac{1}{k_1} + \frac{1}{k_2}) = \frac{F}{(k_1 + k_2)} = \frac{F}{k_{tot}}$ $\begin{bmatrix} \chi_{1} & \vdots & \vdots \\ k_{1} & \chi_{2} & \vdots \\ k_{2} \end{bmatrix} \xrightarrow{I} \qquad I$ $\begin{bmatrix} " | | " operator \stackrel{a}{=} A | | B \\ \vdots & \vdots \\ A + B \end{bmatrix} \xrightarrow{I} \xrightarrow{AB} A + B$ kfot = Killka (for kitka in series) For EE's: +1-11 = +1-(C1 C2 Cfet = C1/C2 Springer combine like corpocitors (b) Case 2: parallel springs to forcing pt. vic any KI +> FI= KIX for one of the springs F₂ = k₂ X_{tot} X₁ = X₂ Gnotha way to tall that F₂ = k₂ X_{tot} yrmgr gre à perpilogi F = F1+F2 = (K1+K2) x +ot Ktot = Kitk2 (for kitk2 in percelled)

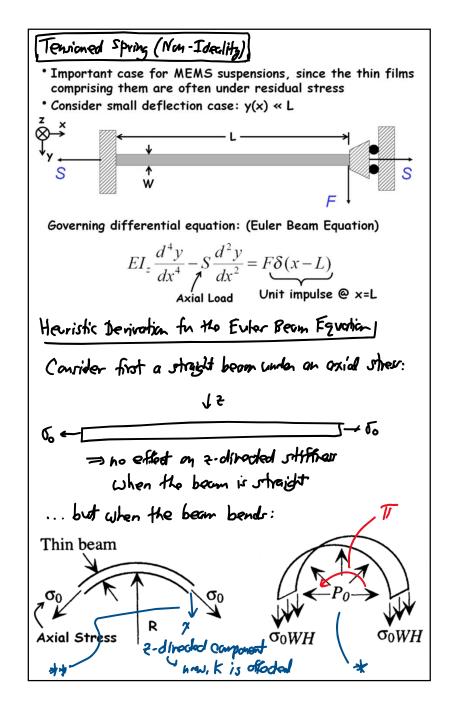












> * Upward pressure Po to counterest the summer the force from to keep everything in static equilibrium For ease of oralysis: Assume the beam bends to an angle T Y Downwood vertical fire: 200WH Get your force due to Po: $\frac{1}{R_{0}} = \frac{1}{R_{0}} =$ =-PWRcord) = 2 RWP. [Equilibrium] = 2RWPo= 200WH - Po: 00H displacements f ongles

