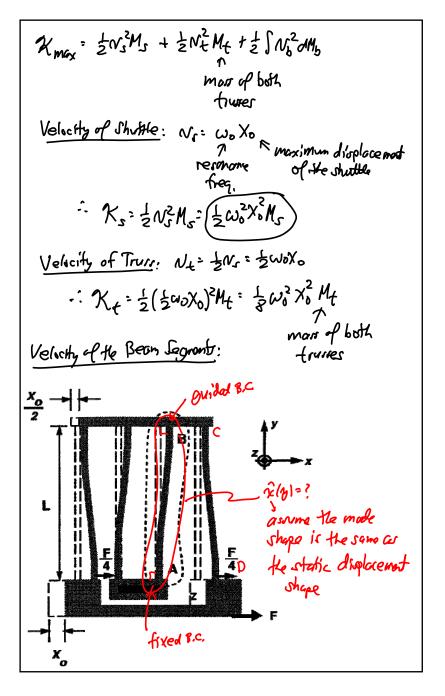


CTN 3/12/15



Segment [AB]: $\hat{\chi}_{W} = \frac{F_{\chi}}{\mu s_{c} \tau_{a}} \left(3Ly^{2} - 2y^{3} \right), \quad 0 \le y \le L$ (1)At N^{2L} : $\chi(L): \frac{\chi_{0}}{2} = \frac{F_{\chi}L^{3}}{48ET_{\chi}} \leftarrow B.C.$ Schutttake into (1): ン ŷ(ŋ)· ※[3(投)²-2(投)³] which yields for velocity: $N_{b}(y_{1})|_{[AB]} = \frac{\chi_{p}}{2} \left[3 \left(\frac{\pi}{L}\right)^{2} - 2 \left(\frac{\pi}{L}\right)^{3} \right] \omega_{0}$ Plugging into the expression for Kh: $\mathcal{K}_{[AB]} = \frac{1}{2} \int_{a}^{L} \frac{X_{o}^{2} \omega_{o}^{2}}{4} \left(3 \left(\frac{y_{c}}{2} \right)^{2} - 2 \left(\frac{y_{c}}{2} \right)^{3} \right)^{2} dM_{[AB]}$ $M_{(AB)}^{2}, J_{(AB)}^{2}, J_{(AB)}^{2},$ K[AB] = 13 200 X0 WO [AB]