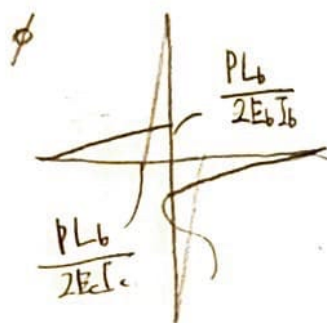
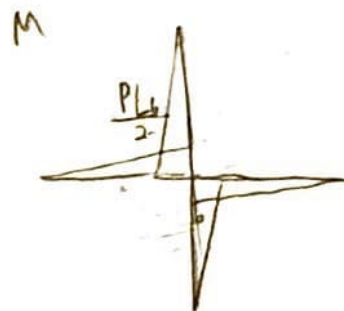
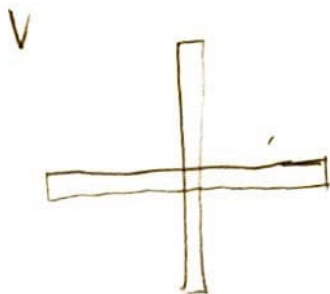
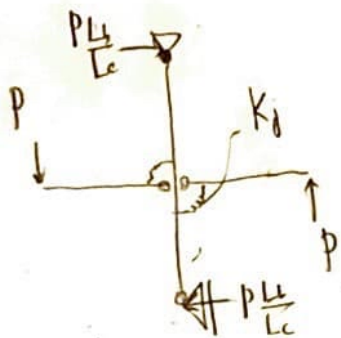
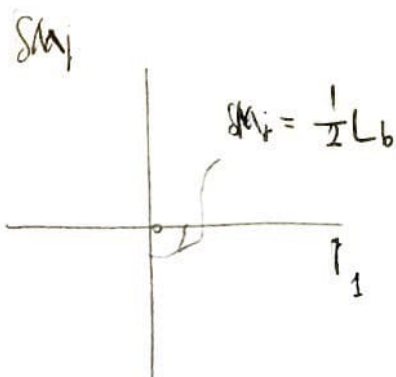
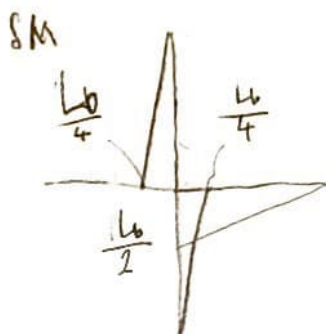
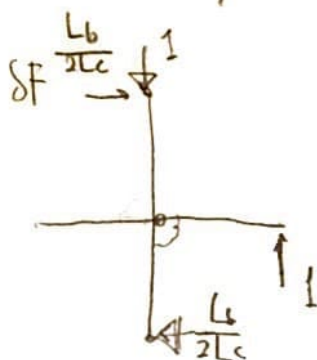


$$\frac{PL_c}{L_c}$$



$$\Delta\theta_j = \frac{PL_b}{2k_j} \quad \frac{PL_b}{2k_j} \quad \frac{PL_b}{2k_j}$$

$$P \cdot \frac{1}{2} L_b = k_j \Delta\theta_j$$



$$\delta = \frac{1}{3} \cdot \frac{1}{4} L_b \cdot \frac{PL_b}{2EcI_c} \cdot \frac{1}{2} L_c \times 2 + \frac{1}{3} \cdot \frac{1}{2} L_b \cdot \frac{PL_b}{2EcI_b} \cdot \frac{1}{2} L_b + \frac{PL_b}{2k_j} \cdot \frac{1}{2} L_b$$

$$= \frac{PL_b^2 L_c}{24EcI_c} + \frac{PL_b^3}{24EcI_b} + \frac{PL_b^2}{4k_j}$$

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