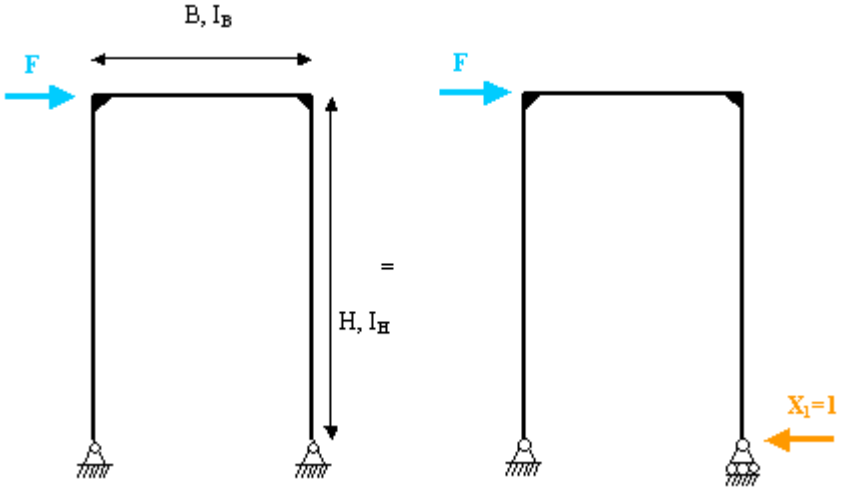
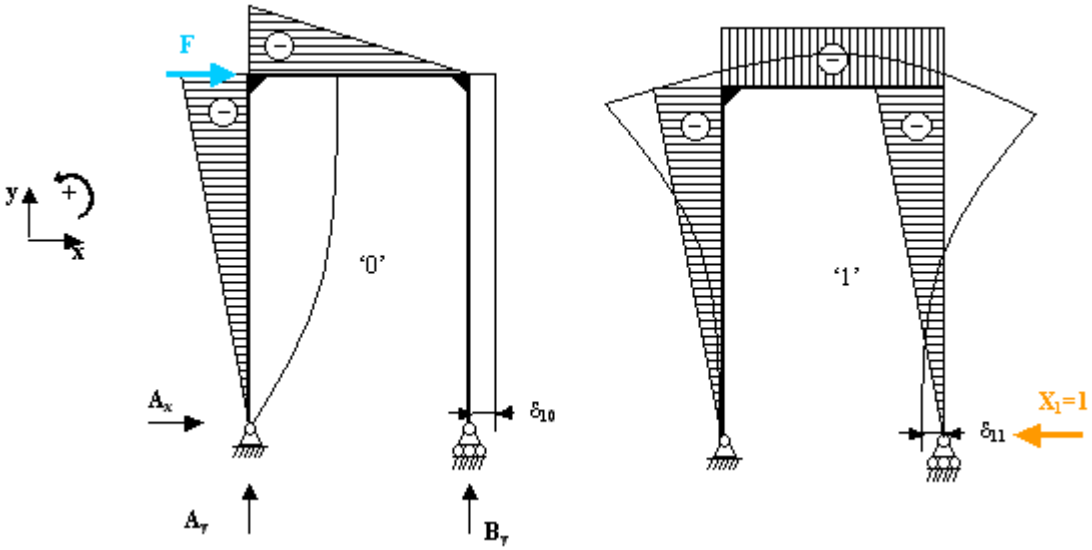
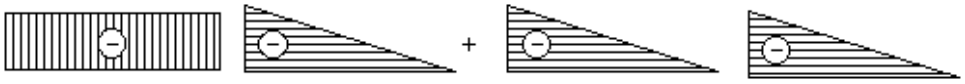


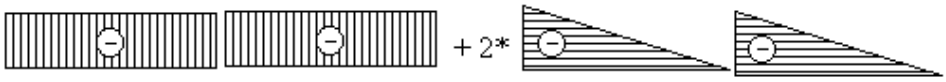


$$A_x := -F \blacksquare^{*} \qquad A_y := -F \cdot \frac{h}{b} \blacksquare^{*}$$

$$B_y := F \cdot \frac{h}{b} \blacksquare^{*}$$

$\delta_{10} =$ 

$$\delta_{10} := \frac{-b \cdot F \cdot h^2}{2E \cdot I_b} - \frac{h^3 F}{3E \cdot I_h}^{*}$$

$\delta_{11} =$  $+ 2*$

$$\delta_{11} := \frac{\frac{2}{3}\cdot h^3}{E\cdot I_h} + \frac{b\cdot h^2}{E\cdot I_b}$$

$$X1 := \frac{-\delta_{10}}{\delta_{11}} \qquad X1 \text{ simplify } \rightarrow \frac{1}{2}\cdot F$$

$$U := \int_0^h \frac{(-X1\cdot x1)^2}{2\cdot E\cdot I_h}\,dx1 + \int_0^b \frac{(-X1\cdot h + F\cdot x2)^2}{2\cdot E\cdot I_b}\,dx2 + \int_0^h \frac{(-X1\cdot x4 + F\cdot x4)^2}{2\cdot E\cdot I_h}\,dx4$$

$$\frac{d}{dF}U \rightarrow \frac{1}{6}\cdot h^3\cdot\frac{F}{E\cdot I_h} - \frac{1}{24}\cdot F\cdot\frac{h^3 - 6\cdot b\cdot h^2 + 12\cdot h\cdot b^2 - 8\cdot b^3}{E\cdot I_b} + \frac{1}{24}\cdot\frac{F}{E\cdot I_b}\cdot h^3$$

$$c := \frac{F}{\frac{d}{dF}U} \qquad c \rightarrow \frac{F}{\frac{1}{6}\cdot h^3\cdot\frac{F}{E\cdot I_h} - \frac{1}{24}\cdot F\cdot\frac{h^3 - 6\cdot b\cdot h^2 + 12\cdot h\cdot b^2 - 8\cdot b^3}{E\cdot I_b} + \frac{1}{24}\cdot\frac{F}{E\cdot I_b}\cdot h^3}$$

$$c \text{ simplify } \rightarrow 12\cdot E\cdot I_h\cdot\frac{I_b}{2\cdot h^3\cdot I_b + 3\cdot I_h\cdot b\cdot h^2 - 6\cdot I_h\cdot h\cdot b^2 + 4\cdot I_h\cdot b^3}$$