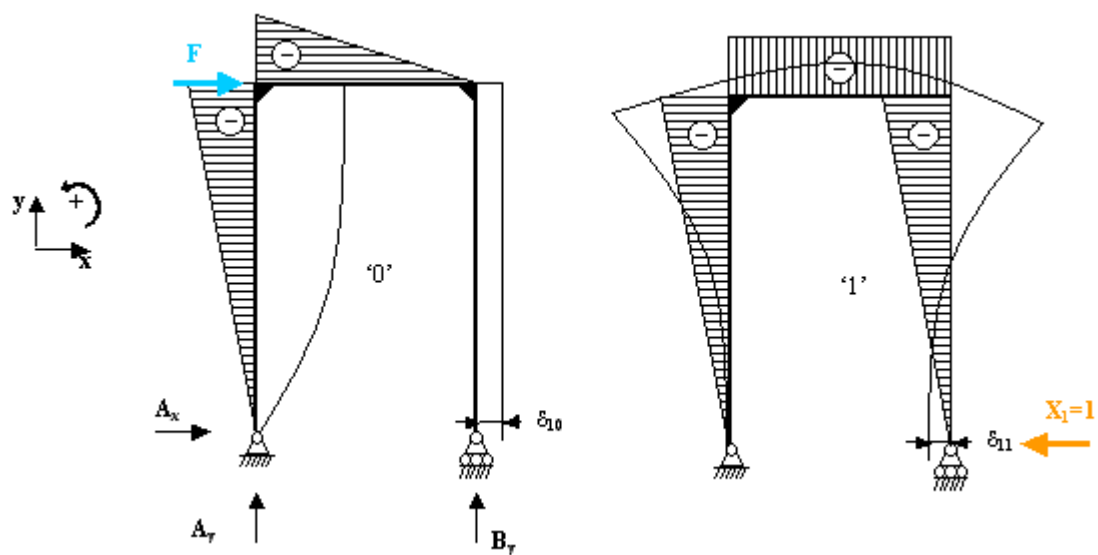
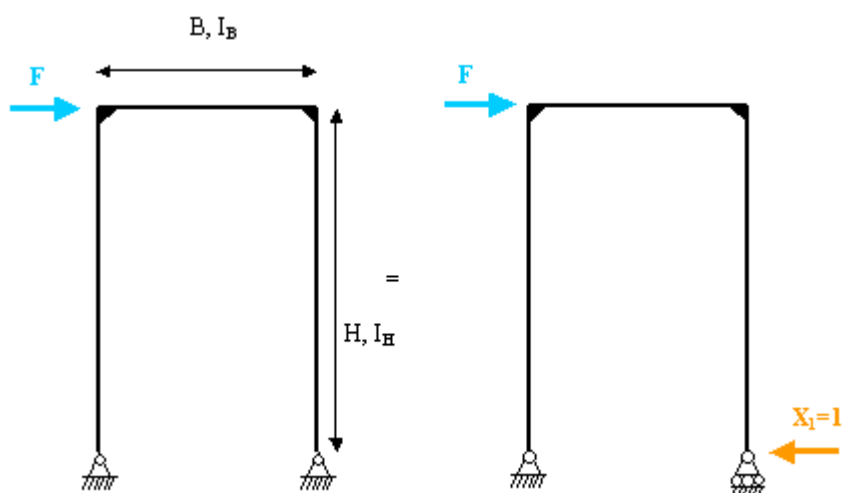




$$A_x := -F \quad A_y := -F \cdot \frac{h}{b}$$

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

$$\delta_{10} = \text{[Diagram of moment distributions for } \delta_{10} \text{]} + \text{[Diagram of moment distributions for } \delta_{10} \text{]}$$

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

$$\delta_{11} = \text{[Diagram: Two rectangles with vertical hatching and a central circle containing a minus sign]} + 2 \cdot \text{[Diagram: Two triangles with horizontal hatching and a central circle containing a minus sign]}$$

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

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

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

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

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

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

