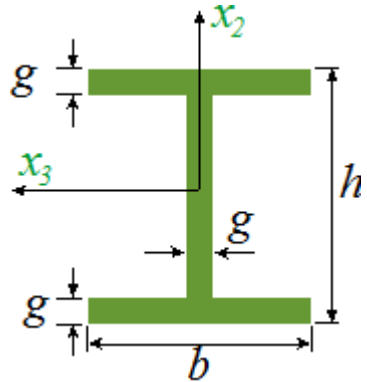


Zad. 2

$$E := 18 \text{ GPa} \quad L := 7 \text{ m} \quad b := 11 \text{ cm} \quad h := 19 \text{ cm} \quad g := 3 \text{ cm}$$

$$\text{Sch} := 2 \quad \mu := mb_{\text{Sch}} \quad L_w := \mu \cdot L$$



$$b1 := b - g \quad h1 := h - 2 \cdot g$$

$$J3 := \frac{b \cdot h^3}{12} - \frac{b1 \cdot h1^3}{12}$$

$$J2 := \frac{g \cdot b^3}{6} + \frac{h1 \cdot g^3}{12}$$

$$J := \min(J2, J3) = 694.750000 \cdot \text{cm}^4$$

$$P_{kr} := \frac{\pi^2 E \cdot J}{L_w^2} = 25.19 \cdot \text{kN}$$

$$mb := \begin{pmatrix} 2 \\ 1 \\ \frac{\pi}{z} \\ 0.5 \end{pmatrix}$$

$$z := 4.493409$$

$$mb_3 = 0.699156$$

