

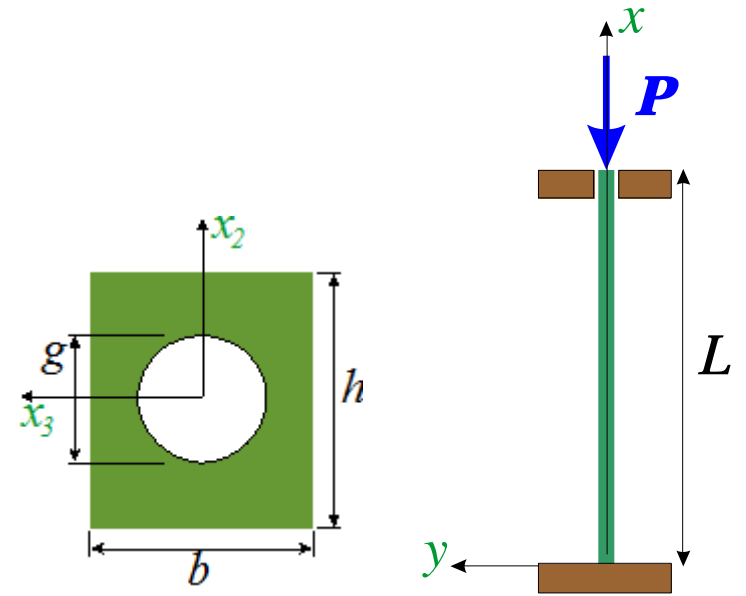
Grupa A2

$$E := 19 \text{ GPa} \quad \underline{L} := 11 \text{ m} \quad b := 12 \text{ cm} \quad h := 13 \text{ cm} \quad \underline{g} := 7 \text{ cm}$$

$$J_2 := \frac{h \cdot b^3}{12} - \frac{\pi g^4}{64} = 1754.141 \cdot \text{cm}^4$$

$$J_3 := \frac{h^3 \cdot b}{12} - \frac{\pi g^4}{64} = 2079.141 \cdot \text{cm}^4$$

$$\underline{J} := \min(J_2, J_3) = 1754.141 \cdot \text{cm}^4$$



$$\cos(z) = 1$$

$$P_{kr} := \frac{z^2 E \cdot J}{L^2} = 108.74 \cdot \text{kN}$$

