

Problem 610

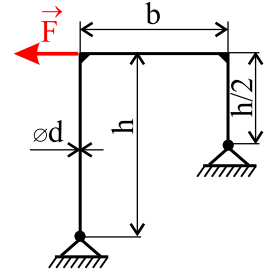
Determine how should be the force \vec{F} to bring the frame in the figure in the limit state of elasticity. The geometry of the frame, its bearing and material characteristics are known.

Input values:

$$b = 1 \text{ m}, \quad \phi d = 30 \text{ mm},$$

$$h = 3 \text{ m},$$

$$E = 2 \cdot 10^5 \text{ MPa}, \quad \sigma_K = 300 \text{ MPa}$$



angular beams

procedure of solving supported beams