

Problem 615

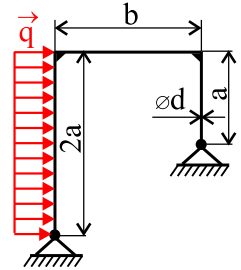
Determine the value of the distributed load \vec{q} , which the frame (in the figure) should be acted upon by to be brought in the limit state of elasticity. The geometry of the frame, its bearing and material characteristics are known.

Input values:

$$b = 1,5 \text{ m}, \quad \varnothing d = 30 \text{ mm},$$

$$a = 1 \text{ m},$$

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



angular beams

procedure of solving supported beams