

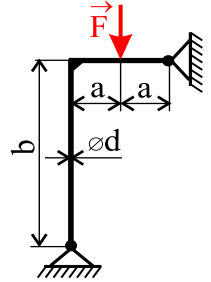
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### Problem 614

Determine the safety factor of the frame against the limit state of elasticity. The frame is loaded by the force  $\vec{F}$ . Gravitational forces can be neglected.

Input values:

$$\begin{aligned} a &= 0,5 \text{ m}, & \varnothing d &= 40 \text{ mm}, \\ b &= 1,5 \text{ m}, & F &= 2 \text{ kN}, \\ E &= 2 \cdot 10^5 \text{ MPa}, & \sigma_K &= 300 \text{ MPa} \end{aligned}$$



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Solutions      angular beams