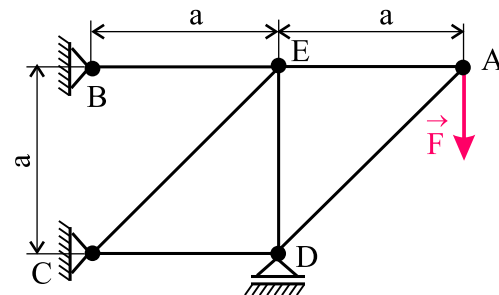


Problem 431

- a) Determine the safety factor of the strut frame in the figure against the limit state of elasticity. All the bars are homogeneous, of the same diameter $\varnothing d$ and are made of the same material.
- b) Calculate the displacement of the point A .

Input values: $a = 2,5 \text{ m}$, $E = 2 \cdot 10^5 \text{ MPa}$, $F = 100 \text{ kN}$,
 $\varnothing d = 30 \text{ mm}$, $\sigma_K = 350 \text{ MPa}$.



tension systems with bars