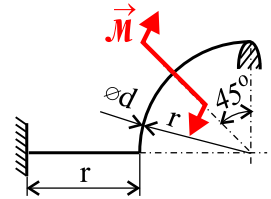

Problem 606

Determine the maximum value of the couple \mathcal{M} which the beam (in the figure) can be acted upon by, if the safety factor against the limit state of elasticity should be at least 2. Gravitational forces can be neglected.

Input values:

$$r = 0,5 \text{ m}, \quad \phi d = 20 \text{ mm},$$
$$E = 2 \cdot 10^5 \text{ MPa}, \quad \sigma_K = 300 \text{ MPa}$$



curved beams

procedure of solving supported beams