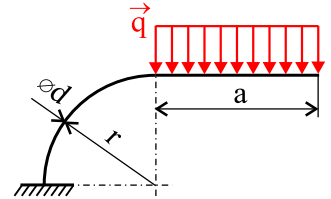

Problem 623

Determine the displacement of the free end of the beam with circular cross section loaded by distributed load \vec{q} according the figure. Gravitational forces can be neglected.

Input values:

$$a = 2 \text{ m}, \quad q = 100 \text{ Nm}^{-1}, \quad E = 2 \cdot 10^5 \text{ MPa}, \\ r = 1 \text{ m}, \quad \varnothing d = 0,04 \text{ m}, \quad \sigma_K = 300 \text{ MPa}$$



Solutions

angular and curved beams

procedure of solving supported beams