

Determine the Euler buckling load (F_{cr}) for the beam column shown in the figure below. The material of the beam is characterized by the Young modulus $E = 210$ GPa.

The checked values are:

- Euler's buckling load (F_{cr})[kN]
- Radii of gyration (i_y, i_z)[m]
- Slenderness ratio with respect to y-axis and z-axis, respectively (λ_y, λ_z)[-]

