



# Beam Analysis

April 23, 2024, 4:57 p.m.

## Beam details

This beam is 0.1m in length, with a second moment of area of  $0.083333\text{cm}^4$  and a Young's Modulus of 200GPa. No self-weight is applied to the beam.

The left end of the beam is fixed in position

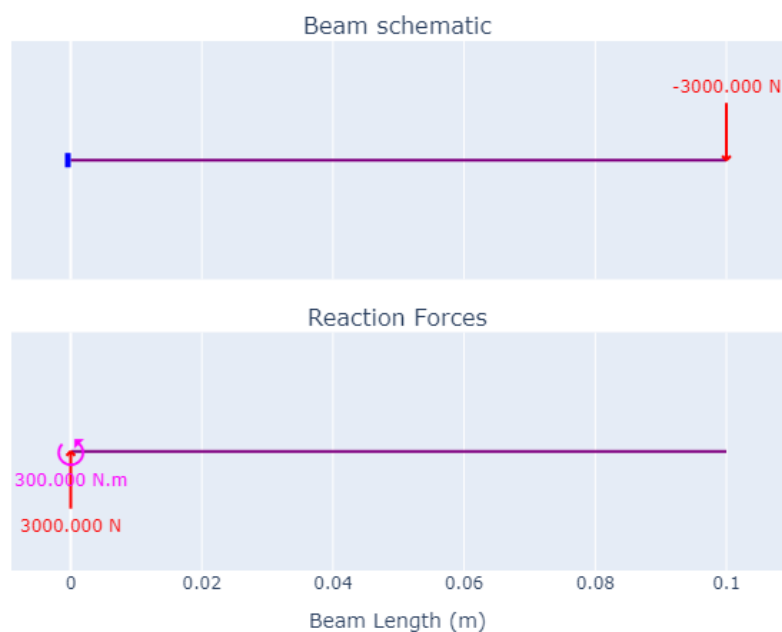
There are no pin joints used to support the beam at any positions

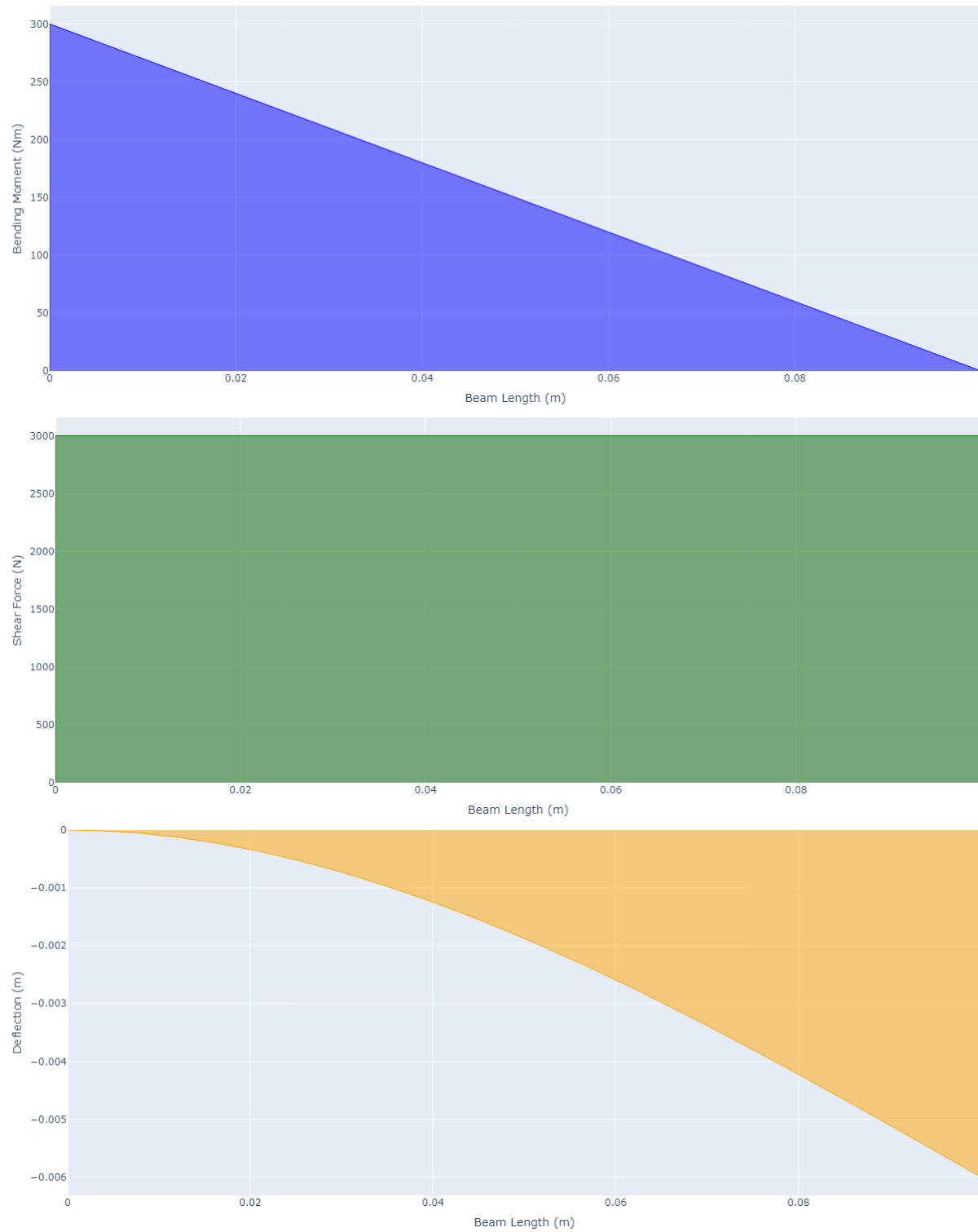
Point loads are applied to the beam at the positions: 3.0kN at 0.1m,

No Varying Distributed Loads are applied to the beam at any positions

## Beam force diagrams:

### Beam External Conditions





## Beam forces summary

	Max predicted	Min predicted
<b>Bending moment</b>	0kNm	-0.3kNm
<b>Shear force</b>	3kN	0kN
<b>Deflection</b>	0mm	-6mm