



Beam Analysis

April 23, 2024, 4:58 p.m.

Beam details

This beam is 0.1m in length, with a second moment of area of 0.083333cm^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

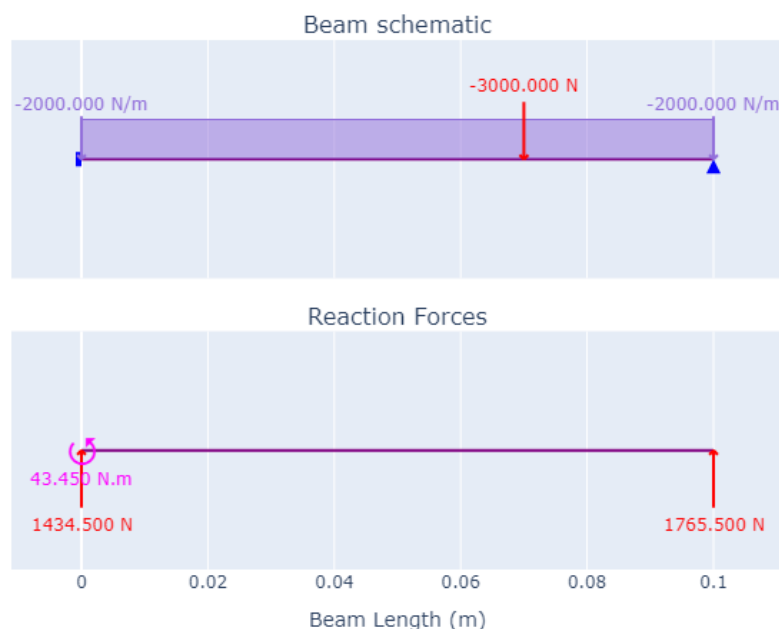
Pin joints support the beam and are positioned at: 0.1m,

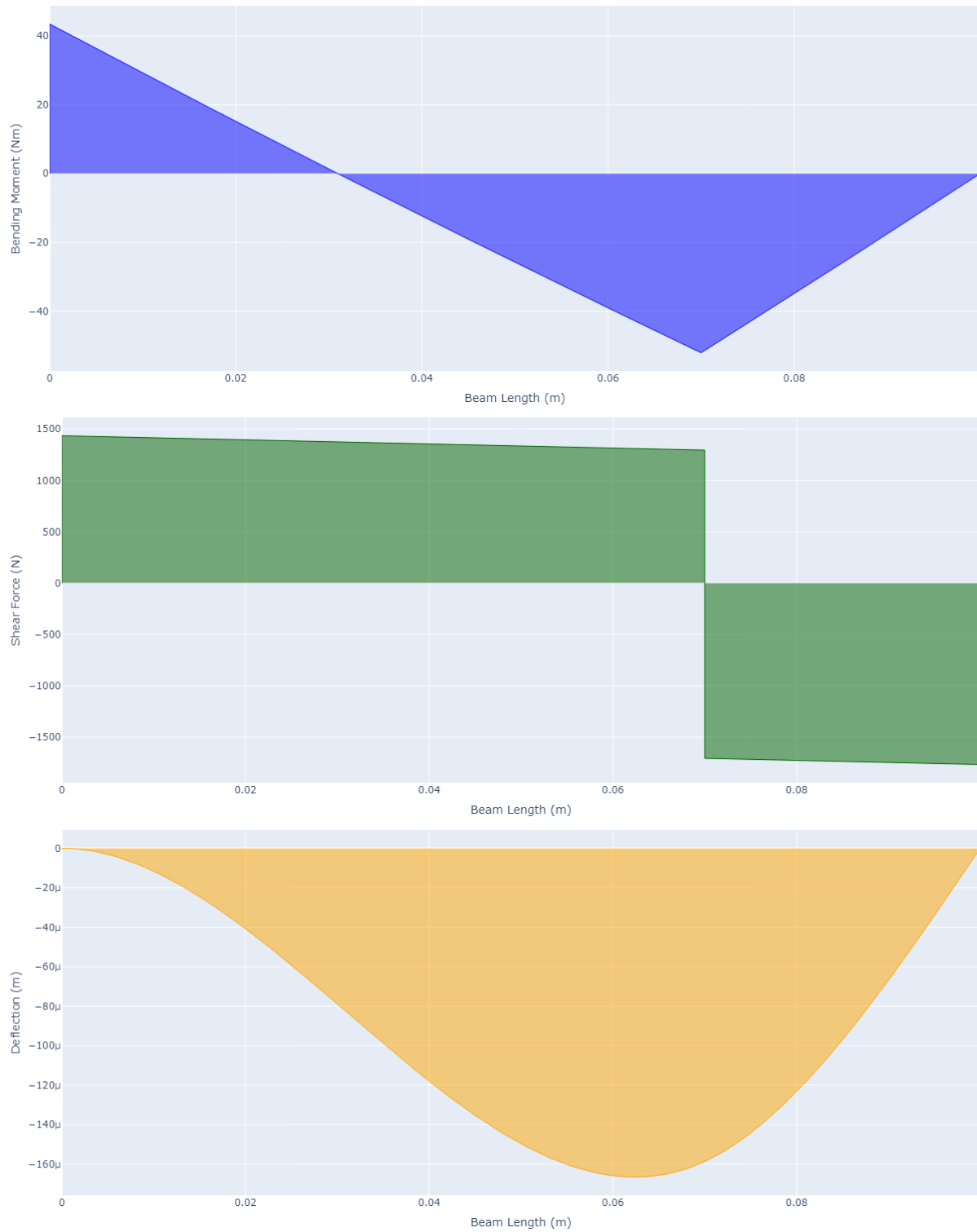
Point loads are applied to the beam at the positions: 3.0kN at 0.07m,

Varying Distributed Loads are applied to the beam at the following positions:
2.0-2.0kN/m from 0m to 0.1m,

Beam force diagrams:

Beam External Conditions





Beam forces summary

	Max predicted	Min predicted
Bending moment	0.1kNm	0kNm
Shear force	1.4kN	-1.8kN
Deflection	0mm	0mm