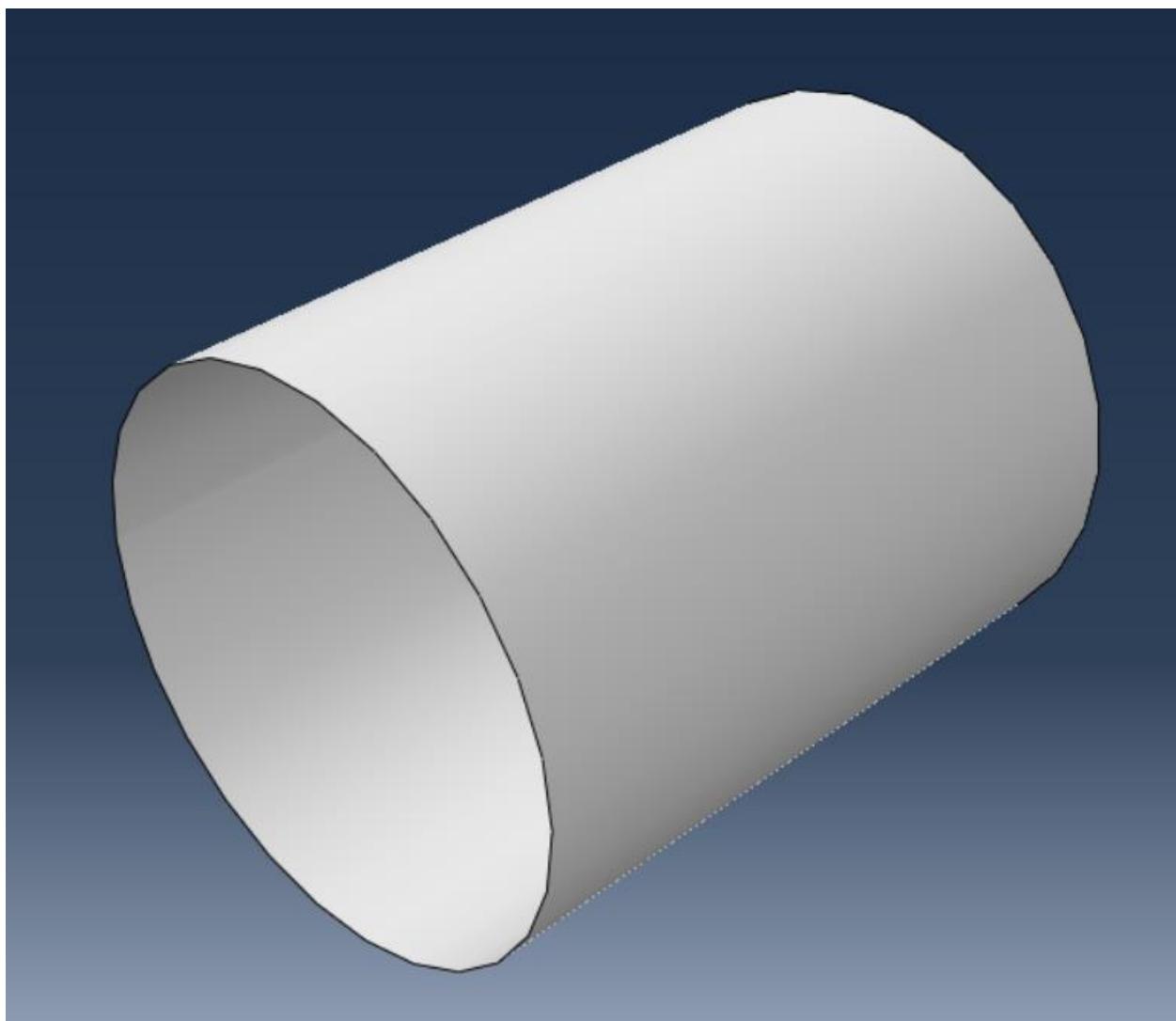


Project 24_ABAQUS: Buckling of a Cylinder

Problem Statement: Model deformation of a cylinder subjected to buckling.

Geometry:



Material Properties:

- Material Behaviors

Elastic

General Mechanical Thermal Electrical/Magnetic Other

- Elastic

Type: Isotropic

Use temperature-dependent data

Number of field variables:

Moduli time scale (for viscoelasticity): Long-term

No compression

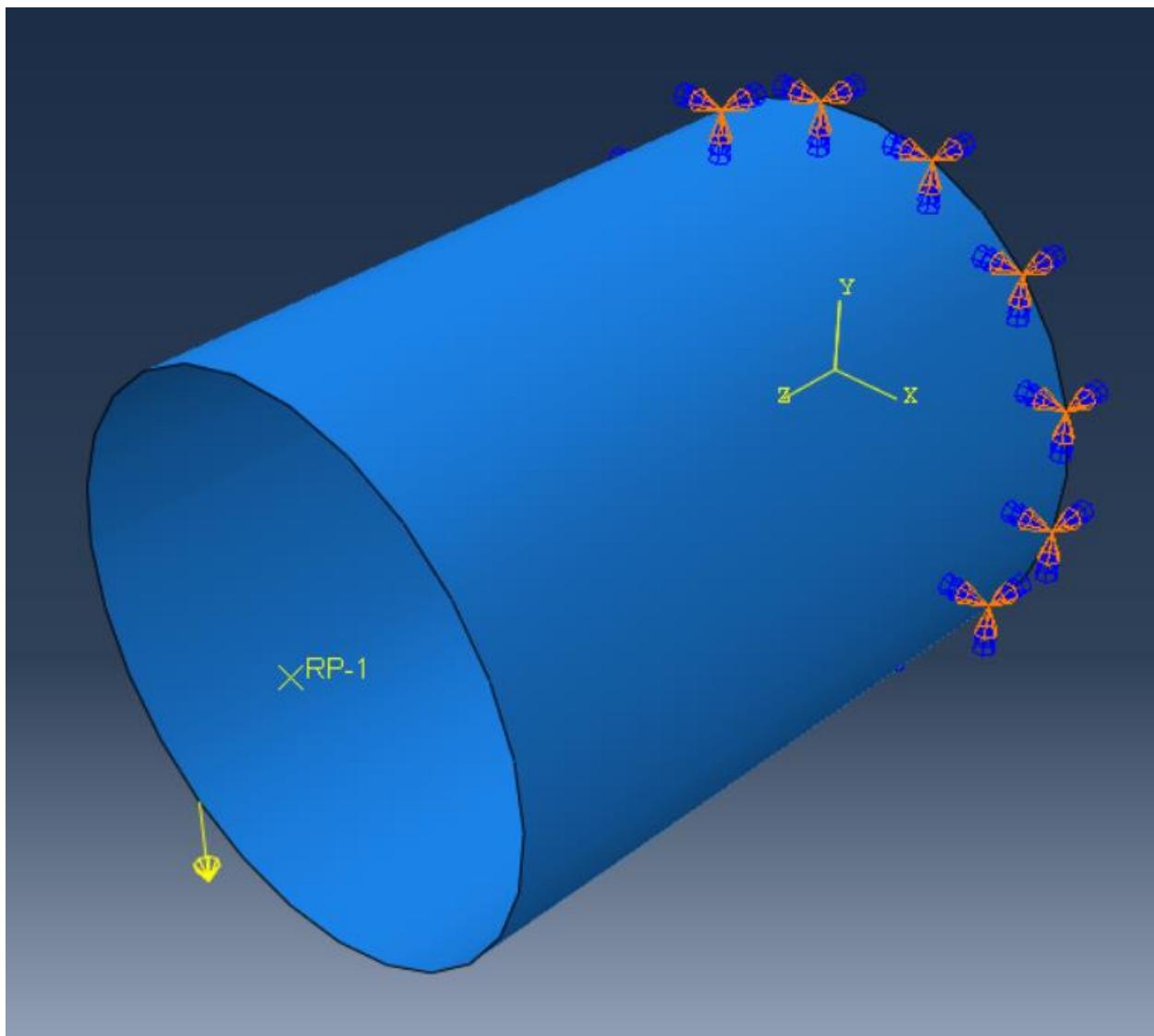
No tension

Data

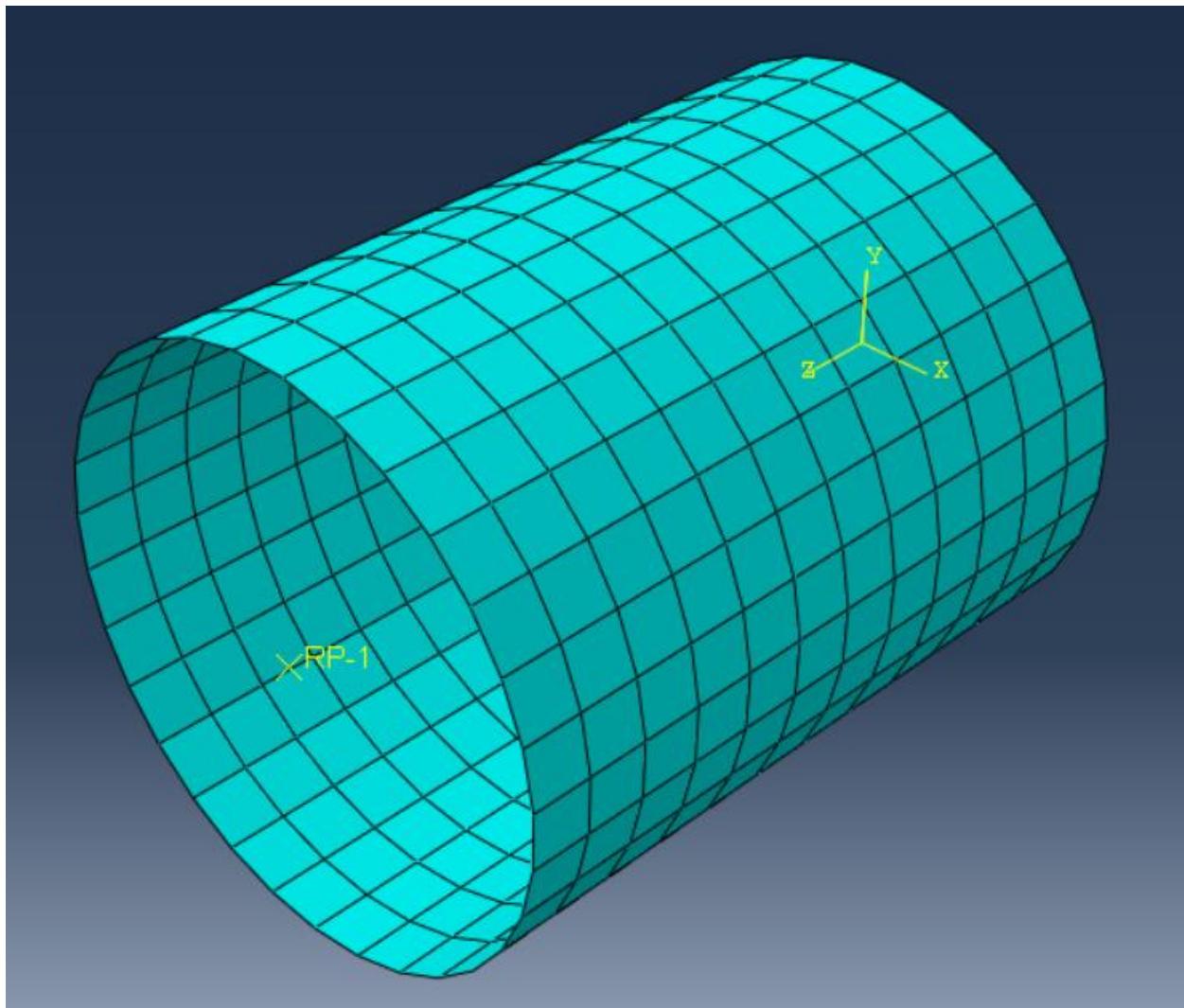
	Young's Modulus	Poisson's Ratio
1	210000	0.3

Loading and boundary conditions:

- 1) Right edge is fixed.
- 2) Left edge has a concentrated force applied.



Mesh: (coarse due to limitation of 1000 nodes in ABAQUS educational version).



Results:

Deformation:

