

ANSYS - Linear Column Buckling

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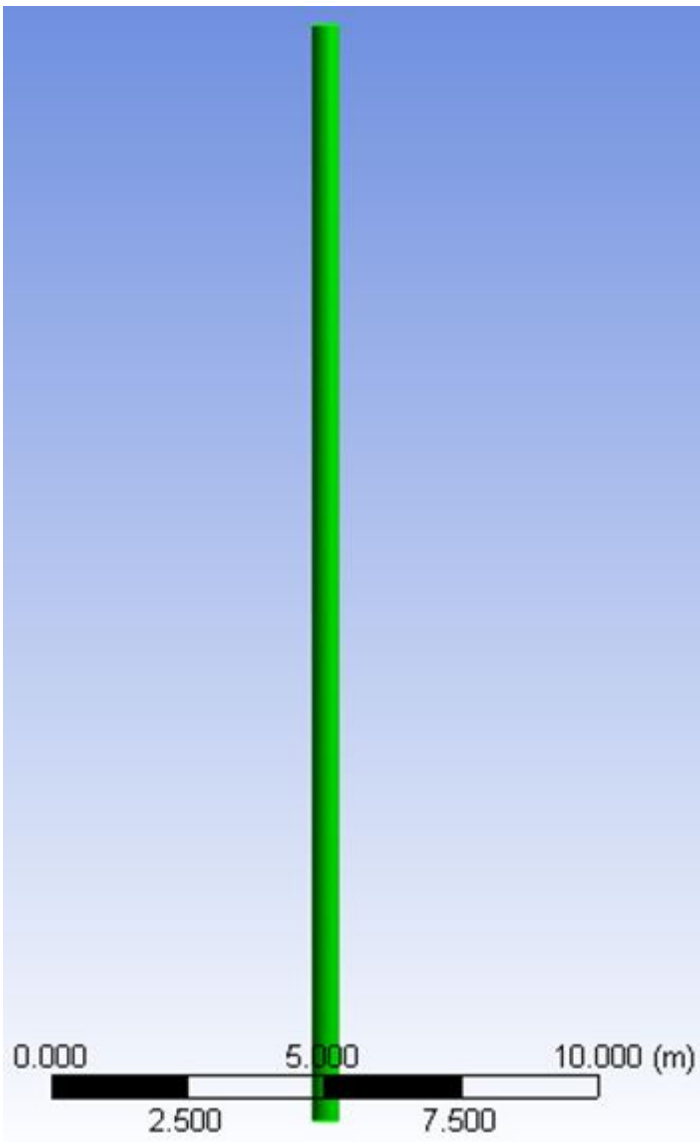
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Linear Column Buckling

Created using ANSYS 13.0

Problem Specification

Consider the column in the figure below. It is pinned on both ends and supports an axial load. The column has a circular cross section with a diameter of .5m and is 20m long. It is constructed of structural steel with a Young's modulus of $2E+11$ Pa and a poisson's ratio of .3. Calculate the critical buckling load of the column.



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