SSEP001 - Computation of Yield-point load of a tube with under thickness

Summarized

In this test, one calculates the Yield-point load of a tube with under thickness.

One calculates the Yield-point load in two different ways:

1) By a static approach which allows the computation of the loading which corresponds to the solution of free yielding. This approach makes it possible to calculate by the undervaluing interior one of the Yield-point load. It is enough to record the value of ETA_PILOTAGE from time when this value is stabilized.

2) By a kinematical approach regularized by the method of Norton-Hoff-Friaâ which calls on incompressible elements. It leans on a linear static resolution and parametric control.

A postprocessing with command POST_ELEM makes it possible to obtain the estimates of the hight delimiters and lower of the Yield-point load.

This case test is used to check the validity of the command files corresponding to the lower and higher Yield-point load of the two cases of a tube with under thickness. Under thickness is defined starting from the points of measurement raised on site.

Modelization a:
- Computation of the lower Yield-point load.

Modelization b:

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- Computation of the higher Yield-point load.

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