
SSEP002 - Computation of Yield-point load of an elbow with under thickness

Summarized:

In this test, one calculates the Yield-point load of an elbow 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-Fria 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 high 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 an elbow with under thickness. The under-thickness is defined starting from the points of measurement raised on site.

Modelization a:

- Computation of the lower Yield-point load.

Modelization b:

- Computation of the higher Yield-point load.

Warning : The translation process used on this website is a "Machine Translation". It may be imprecise and inaccurate in whole or in part and is provided as a convenience.

This documentation is voluntarily brief.