

ZZZZ287 – Elementary validation of Summarized operator

POST_RUPTURE:

The purpose of this test is validating in an elementary way operator `POST_RUPTURE`. This test does not have any physical meaning, it is primarily a data-processing test.

Various operations are tested:

- standardization of the curvilinear abscisse,
- computation of the angle of bifurcation,
- computation of the increment of advanced of fatigue crack,
- computation of the stress intensity factor are equivalent,
- computation of $(\Delta K)_{eq}$ used for the propagation in variable amplitude,
- put at zero of the negative values of the stress intensity factors K_1 and computation of the new rate of refund G by the formula of Irwin.

This test contains two modelizations:

- the modelization A considers a crack with a bottom.
- the modelization B comprises a crack with two funds.