

Changes to FRANC3D from Version 7.3 to 7.3.1

Jan 11, 2019

- 1) Cycle/time integration revised – specifically to address issue where $dK < dK_{th}$.
- 2) Updates to NASTRAN interface.
- 3) Bug fix in crack growth table output to file.
- 4) Check to make sure interior element faces are not added to crack surface contact set.

Changes to FRANC3D from Version 7.3.1 to 7.3.2

Jan 15, 2019

- 1) Bug fix when using FOREVER as the hold time in fatigue/crack growth.
- 2) GUI bug fix in the hold-time dialog panel on MSWindows.

Changes to FRANC3D from Version 7.3.2 to 7.3.3

Feb 14, 2019

- 1) Fix Edit button in multiple flaw insertion dialog.
- 2) Check for linear – quadratic element incompatibility in ANSYS global cdb.
- 3) Fix bug when reading ABAQUS crack face contact settings.
- 4) Surface meshing bug fix.
- 5) Revise check for collinear points or nodes when defining local crack coordinate system.
- 6) Add temperature K(elvin) units to output files.
- 7) Fixed (reset) default view setting in dialog panels.
- 8) Fixed bug when turning off / on growth of multiple crack fronts.

Changes to FRANC3D from Version 7.3.3 to 7.3.4

Feb 28, 2019

- 1) Minor edit in fretting GUI and fretting output for found load pair.
- 2) Fix SERR_equiv in command line processor.
- 3) Fix ellipsoid void insertion using GUI.
- 4) Round cycles up to 1 for cases where material data might not be correct, so that positive crack growth is computed.
- 5) Fix kink angle for cyclic loading to make sure the weighted average is correct for high K_{II}/K_I .
- 6) Catch upper and lower case name variations for ABAQUS nset and elset.