

ANSYS Class3 Error Report

ERROR NO:
2013-17

Keywords:

PIPE288

PIPE289

STRESS STIFFENING

SFBEAM

Description of Error:

The pressure load stiffness matrix may be incorrect for PIPE288 and PIPE289 element types if there is a load input on the SFBEAM command.

The SFBEAM command is used for these element types when applying pressure load on faces 4, 5, 6, 7, or 8.

Pressure load stiffness is used for the following analyses:

1. Eigenvalue buckling
2. Pre-stressed modal
3. Linear perturbation
4. Large deflection

Typical GUI Path(s):

Main Menu>Solution>Define
Loads>Apply>Structural>Pressure>On Beams

Other Comments:**First Incorrect Version:**

Release 12.0

Corrected In:

Release 15.0

Suggested User Action For Running on Uncorrected Version:

Consider replacing the SFBEAM command loading with SURF156 loading or consider disabling the pressure load stiffness with the SOLCONTROL,,,NOPL command.

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