

ANSYS Class3 Error Report

ERROR NO:
2013-20 R1

Keywords:

PIPE288 PIPE289 BEAM188 BEAM189 LARGE DEFLECTIONS
DENSITY

Description of Error:

During a large deflection (NLGEOM,ON) run, the original mass is not preserved for:

1. PIPE288 and PIPE289: All usages
2. BEAM188 and BEAM189: Only usages that include SECT,,BEAM,MESH with more than one material in the cross-section

Typical GUI Path(s):

Main Menu>Preprocessor>Element Type>Add/Edit/Delete

Other Comments:

Mass is used for static analyses with acceleration loading and for all dynamic analyses.

When the strains are small, this error has minimal impact.

First Incorrect Version:

Release 6.0

Corrected In:

Release 15.0

Suggested User Action For Running on Uncorrected Version:

For the BEAM188 and BEAM189 cases, consider using KEYOPT(2) = 1.

Author Signature:

Peter Kohnke 10/24/2013

Reviewed By QA:

Bill Bryan 10/29/2013

Approval:

Dave Conover 10/24/2013