

ANSYS Class3 Error Report

ERROR NO:

2014-13

Keywords:

MP ,ALPX TB ,ANEL TB ,ELASTIC

Description of Error:

For a linear analysis, results can be incorrect for material models with thermal expansion combined with anisotropic elasticity defined by TB,ANEL and TB,ELASTIC. Simulations that use a Newton-Raphson solution method with this material model are not affected by this error. The solution method is specified by the user or selected automatically and the user should refer to the NROPT command documentation and solution output to determine if a Newton-Raphson solution method is used.

Typical GUI Path(s):

Main Menu>Preprocessor>Loads>Load Step
Opts>Other>Change Mat Props>Material Models

Main Menu>Preprocessor>Material Props>Material Models

Main Menu>Solution>Load Step Opts>Other>Change Mat
Props>Material Models

Other Comments:

This does not affect orthotropic materials defined with either the MP commands or the TB,ANEL or TB,ELASTIC tables.

First Incorrect Version:

Release 5.5

Corrected In:

Release 15.1

Suggested User Action For Running on Uncorrected Version:

Force a nonlinear solution with the NROPT,FULL command.

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