

**ANSYS Class3 Error Report**

**ERROR NO:**  
2013-19 R1

**Keywords:**

TB , PRONY                      TB , EXPE                      HARMONIC

**Description of Error:**

In harmonic analyses (ANTYPE,HARMIC), the storage and loss material matrices for viscoelastic materials (TB,PRONY) are incorrect when using experimental data for the complex elastic constants input with the TB,EXPE tables. This causes the results of these analyses to be incorrect.

**Typical GUI Path(s):**

Main Menu>Preprocessor>Material Props>Material Models

Main Menu>Solution>Analysis Type>New Analysis

**Other Comments:****First Incorrect Version:**

Release 14.0

**Corrected In:**

Release 15.0

**Suggested User Action For Running on Uncorrected Version:**

In harmonic analyses with viscoelastic materials, do not use experimental data to input the complex elastic constants. Specify the harmonic viscoelastic behavior with Prony series parameters.

**Author Signature:**

Jobie M. Gerken 10/16/2013

**Reviewed By QA:**

Bill Bryan 10/29/2013

**Approval:**

Dave Conover 10/18/2013