

#1256: OptiStruct – Residual Vector Generation

Product: OptiStruct

Product Version: OptiStruct 12.0 or above

Topic Objective

Residual vector generation in OptiStruct

Topic Details

Modal Frequency Response Analysis (FRA) accuracy can be significantly improved by adding the displacement vectors of a static analysis based on the dynamic loading, referred to as “residual vectors”

- Residual vectors are calculated automatically by default in OptiStruct
- Can also be controlled manually with RESVEC

The following image illustrates the effect that the use of the residual vectors has on the result accuracy of the modal frequency response analysis (FRA) compared to the accurate direct method.

