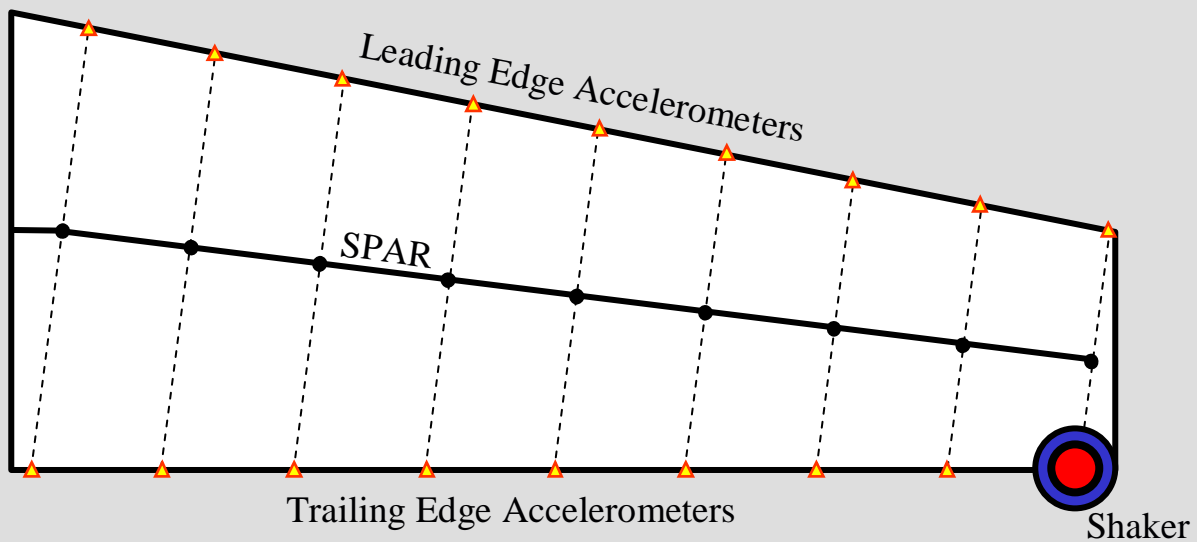
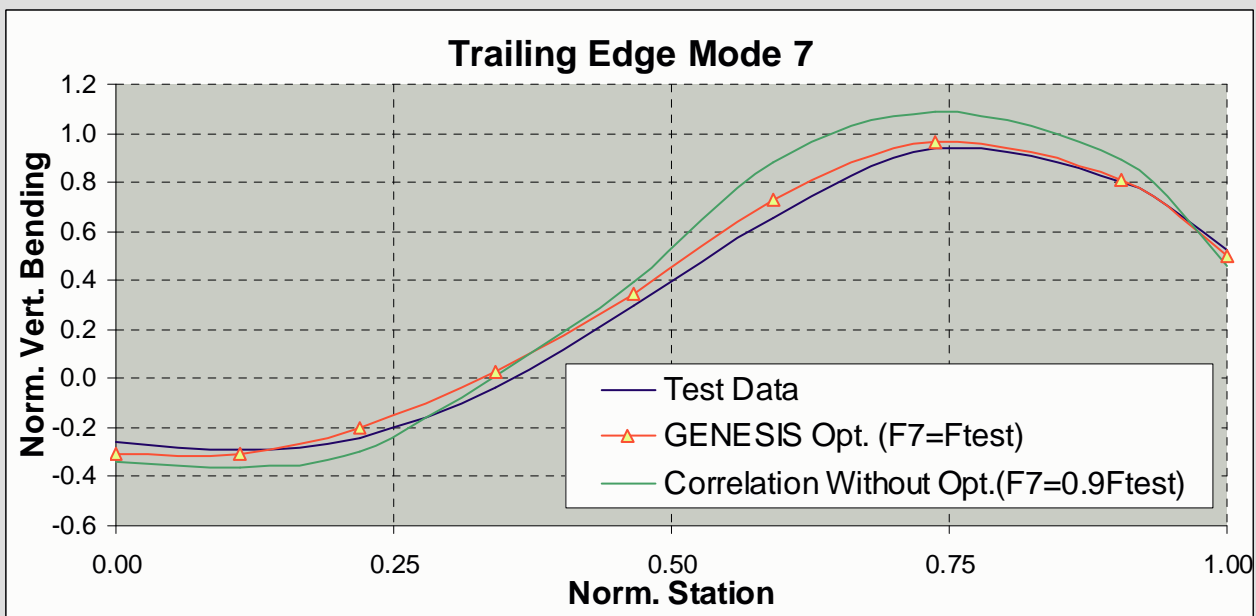


GENESIS Ground Vibration Test Correlation

The design objective is the sum of the square of the differences between the measured and analytical mode shapes.



Design variables are the spar area moments of inertia (I_x , & I_y), and torsional constant (J). Constraints are modal frequencies. All 7 target eigenvectors & eigenvalues are optimized simultaneously.



GENESIS Optimization Takes the Guesswork Out of FEM Correlation