SOLUTIONS FOR NVH

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ABSTRACT –
NVH analyses have some special requirements in both pre and post processing due to the need of running multiple cases within product development cycles. Usage of reduced models helps the analyser to speed up this process. Creation and handling of such reduced models like Nastran Super Elements and Modal and FRF representations for FBS analysis are now easy through new features and more efficient algorithms developed in ANSA and META.
Within this process FE analyses go always along with measurements coming from experiments. New tool developed within META facilitates correlation analysis and also pre-test analysis for estimating and determining the most efficient points to be used as measurement and driving (excitation, hammer) positions in a test model.
Quick TPA and contribution analyses on components can be driven from the respective toolbar (updated version) by just using the component FRF's and the corresponding forces in the associated connection points.
Computational time has effectively been reduced for modal analysis driven with the EPILYSIS solver by using AMLS algorithm.
The above described features are also presented in the related TU Session for NVH Solutions.