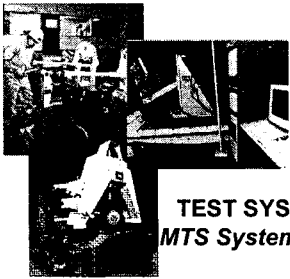


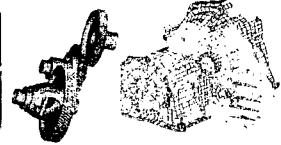
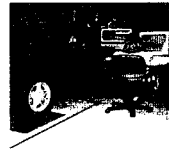
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Science of  
Synchronicity



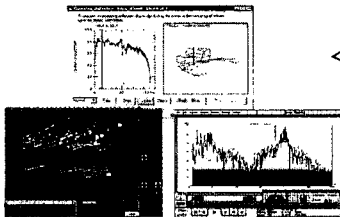
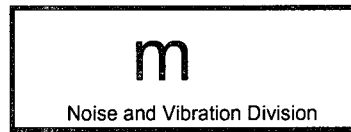
# MTS - Noise & Vibration



**TEST SYSTEMS**  
*MTS Systems Corp*



**N&V CONSULTING &  
SOFTWARE  
SUPPORT SERVICES**



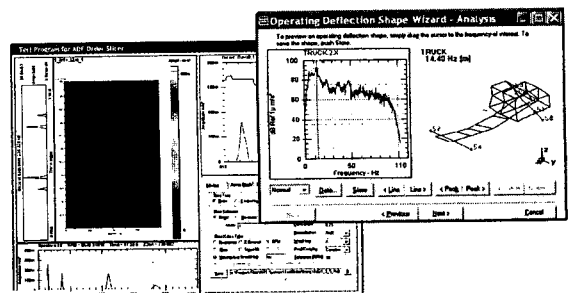
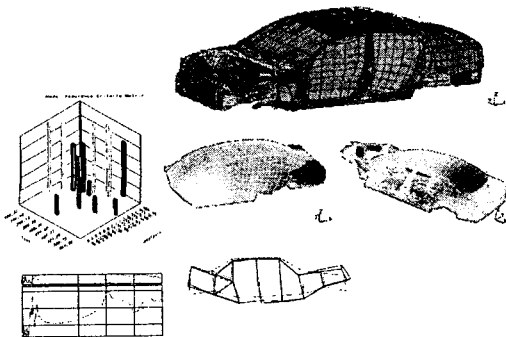
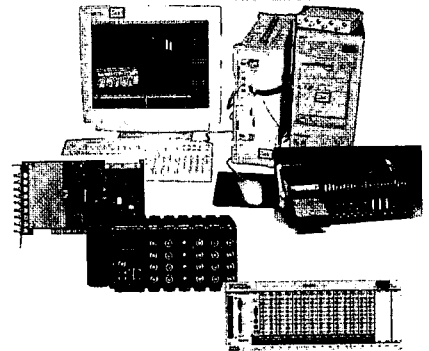
**SOFTWARE  
& MEASUREMENT SYSTEMS**  
*I-DEAS Test & Sound Quality*  
*Jury evaluation, Reporter*  
*Acoustic Simulation*

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## MTS Noise & Vibration Know-How Products (Ideas Test and Sound Quality)

- ◆ Multi-channels real time measurements , Modal Analysis, Multi-Phase Step Sine (MPSS), Normal Mode Tuning, Structural Modification
- ◆ Acoustic & Intensity Measurements, Sound Quality, Jury Evaluation, Noise Path Analysis, Vibro-Acoustics Prediction, Hybrid Modeling
- ◆ Data base and Electronic Reporting

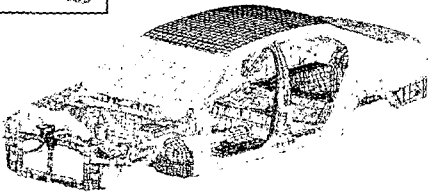
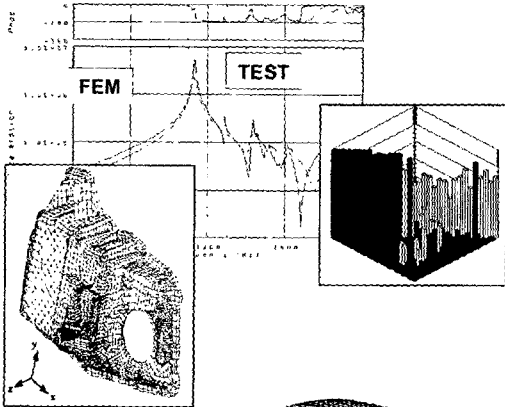


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## CAE Calibrator

- A high productivity toolset for synching FE models & Test



### Problems:

- Incomplete test results prevent use of test data to update models
- CAE Optimization tools don't permit use of existing form of test data
- Non-repeatable, manual processes for identifying differences in test and CAE results
- Time consuming manual process to update CAE design variables
- Proper formatting and organization of test data slows down FE model updating

### Solution:

- Reformats data correctly to run Optimization
- Automatically updates FEM Design Variables
- Much faster route to validated FEM libraries

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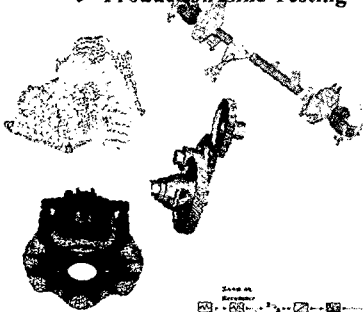


## MTS Noise & Vibration Consulting Services

◆ Product & Process Consulting ( automotive, off-highway, entertainment, defense, aerospace, consumer electronics, industrial

◆ Analytical simulation, test, sound quality Methods Development & Technology Transfer

◆ Production Line Testing



### MTS Sound Imaging Products

- ◆ Acoustic Intensity
- ◆ Sound Camera by Beam Forming

