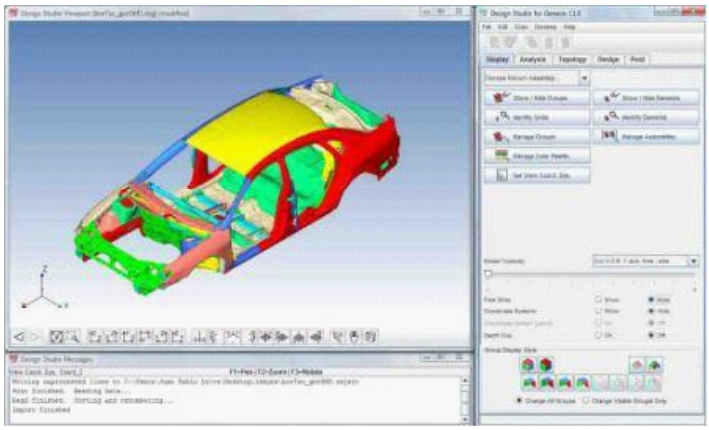
PRE AND POST PROCESSING

Design Studio for GENESIS

Design Studio for GENESIS is a design oriented pre- and post-processor graphical user interface for the GENESIS program.



Design Studio for GENESIS

Design Studio for GENESIS Features:

- Built-in and easy to use trails make it easy to create design objectives and constraints
- Built-in trails makes it easy to parameterize the model
- Contour plots and animations for stress, displacement, and thickness etc.
- Deformed shape plots and animations
- On the fly isodensity topology plots
- Option to export CAD (STL, IGES), or bulk data representation of topology results
- Frequency response plots
- Helps to create reports and presentations
- Allows users to make picture files (png format)
- Allows users to create movies (gif format)
- Catalogs of views to create pictures with same orientations
- Back and forward buttons to return to previous view
- Color control for printings
- Lua scripting plugin
- Many well documented tutorials and examples used in VR&D workshops, or a self taught learning track

OTHER VR&D PRODUCTS

SMS eigensolver

The SMS eigensolver may be added to existing NASTRAN installations to offer significant performance advantages over the default method when a large number of eigenvectors is required for a system with many degrees of freedom. Benchmark tests and user experiences have seen solution times anywhere between 2-10 times faster when using SMS. SMS may also be embedded into your product/software. Contact us for details.

VisualDOC

VisualDOC is a software system that simplifies adding optimization to almost any design task. It uses powerful, intuitive graphical interface, both gradient based and non-gradient based optimization, response surface (RS) approximate optimization, and design of experiments (DOE) methods. VisualDOC interfaces easily to your own code or third-party analysis programs.

DOT - Design Optimization Tools

DOT is a general purpose numerical optimization software library which can be used to solve a wide variety of nonlinear optimization problems. If you require only an optimization engine to incorporate into your design software, DOT will serve that purpose.

BIGDOT

BIGDOT is intended to solve very large, nonlinear constrained problems where gradient information is available, and function and gradient evaluation is efficient. BIGDOT is capable of solving continuous, discrete/integer or mixed variable problems. Problems in excess of three million design variables have been solved by BIGDOT.

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