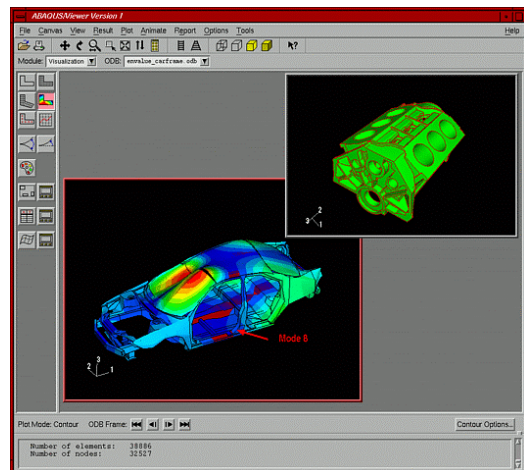


Abaqus

ABAQUS is a high-performance software package developed by Hibbitt, Karlsson & Sorensen, Inc. for the numerical modeling of structural response. It enables you to do linear or nonlinear, and static or dynamic types of analysis for a large spectrum of engineering problems. The ABAQUS suite of engineering analysis software packages are used throughout the world to simulate the physical response of structures and solid bodies to load, temperature, contact, impact, and other environmental conditions. Some of the specific capabilities of ABAQUS are:

- Stress analysis (both static and dynamic responses)
- Dynamic studies (linear and nonlinear problems)
- Heat transfer problems
- Coupled heat transfer and stress analysis
- Coupled pore fluid diffusion and stress analysis problems
- Eigenvalue buckling prediction
- Natural frequency extraction
- J-integral evaluation
- Geostatic stress state
- Dynamic analysis of linear systems by modal methods
- Element removal and replacement



A data deck for ABAQUS contains model data and history data. The model data define a finite element model (geometry, materials definition, element properties, etc.). The history data define the sequence of events or loadings. History data is divided into steps, each step being a period of response of a particular type.

All data definitions in ABAQUS are accomplished with option blocks. Each option is introduced by a keyword card. Within certain restrictions, you can use user subroutines as powerful and flexible tools for analysis. Post processing options include time history plots, variable-variable plots, and printed tables showing values as functions of time, output in a neutral plot format that you can read with the post-processing routine of your choice. There are also options that allow additional output (printed tables, contour or deformed configurations plots, FILE output) to be created at specified increments from an ABAQUS restart file.

For additional information, please refer to the following URL: <http://www.hks.com/products/>

Platform: Windows NT

License restrictions: none

Number of copies: 25

Requested by: Rob Wagoner
