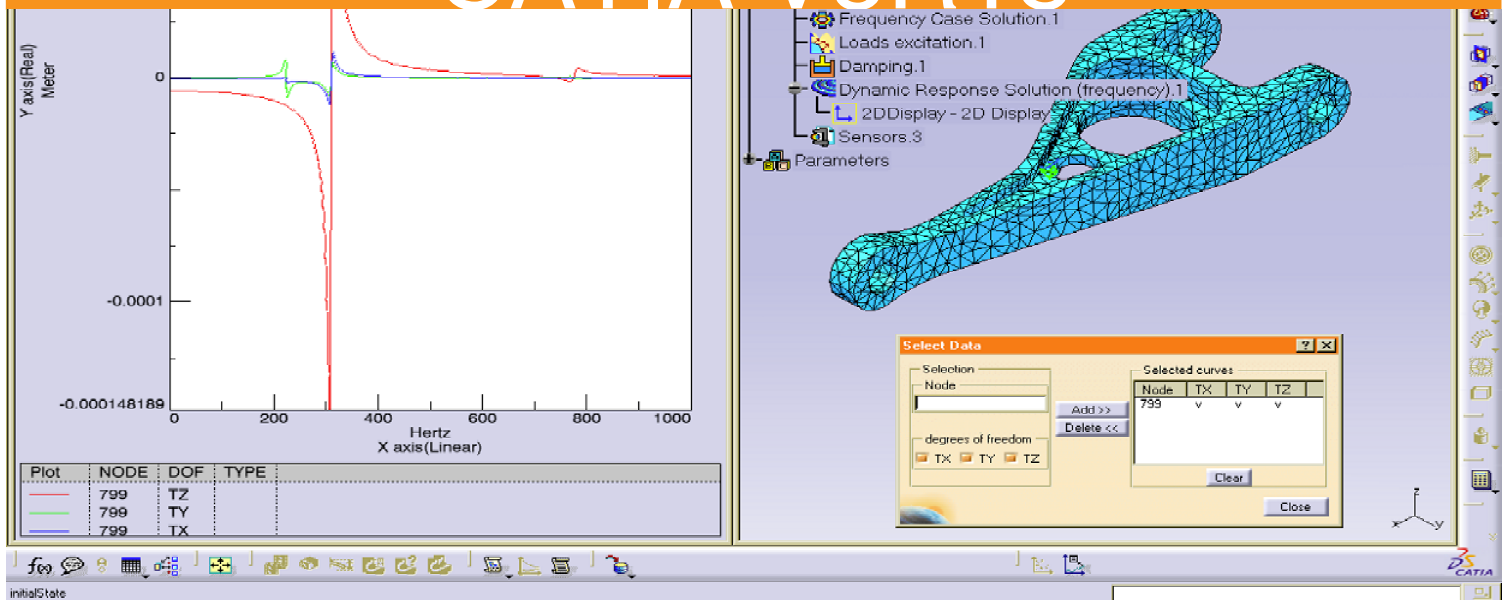


Analysis

CATIA - Generative Dynamic Response Analysis 2 (GDY)

CATIA V5R18





Analysis

CATIA - Generative Dynamic Response Analysis

Provide designers with interactive functions to predict and analyze the dynamic response of a system.

Product overview

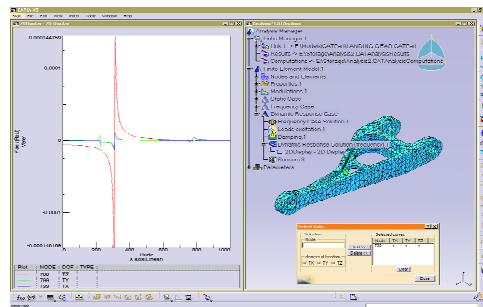
CATIA - Generative Dynamic Response Analysis (GDY) enables designers to predict dynamic response of parts, as well as assemblies, in conjunction with CATIA - Generative Part Structural Analysis 2 (GPS) and CATIA - Generative Assembly Structural Analysis 2 (GAS). As an integrated product, it is used with CATIA design products to provide fully associative analysis specifications. This permits rapid assessment of the impact of design changes, allowing high quality designs to be rapidly derived.

Product Highlights

- ❑ Extends CATIA - Generative Part Structural Analysis 2 (GPS) with dynamic response analysis
- ❑ Provides forced response on time and frequency domain
- ❑ Benefits of the unique native and associative CAD/CAE integration
- ❑ Provides efficient 3D and curves display analysis

Product Key Customers Benefits

Benefits of the unique native and associative CAD/CAE integration ... CATIA - Generative Dynamic Response Analysis 2 (GDY) is an easy-to-use tool tailored to designers and design engineers. As a result of the native CAD/CAE integration, users can



easily predict dynamic analysis of designs, in a consistent user interface, at any time in the design process. Dynamic analysis can be performed on solid, surface, wire frame geometry and hybrid assemblies. The association of analysis specifications, such as loads and restraints, with the design ensures users to work quickly and consistently. With CATIA - Generative Dynamic Response Analysis 2 (GDY) they can size and validate their designs early in the development cycle, saving time and improving quality.

Provides forced response on time and frequency domain ... CATIA - Generative Dynamic Response Analysis 2 (GDY) allows users to analyze displacements, forces and stresses on time and frequency domain. The restraint based excitation corresponding to an imposed motion of the support of the model is also covered. As a result of this analyze users can take into account phenomenon such as vibration and resonance. The motion is thus an integral part of the design. This parts' behaviour knowledge, and its mechanical consequences, enables users a better sizing of their design. A better sizing simply synonymous of increased quality and

lower cost.

Provides efficient 3D and curves display

analysis Now, you've computed your dynamic response. Let's analyze it. First, as a result of the CATIA Analysis solution structure, users benefit from the advanced 3D visualization tools provided by CATIA Generative Part Structural Analysis 2 (GPS) and CATIA Elfini Structural Analysis 2 (EST). Users can then take advantage of all the different images and animations available. Moreover with CATIA Dynamic Response Analysis 2 (GDY) designers can also analyze the dynamic response of their parts with advanced 2D display. A complete tool box with many options allowing analyzing quickly and with a great accuracy the results. CATIA - Generative Dynamic Response Analysis 2 (GDY) is easy to use but definitively not limited.

ABOUT CATIA V5R18

CATIA is Dassault Systemes' PLM solution for digital product definition and simulation.

plm.3ds.com/CATIA

