

DATA PROCESS FOR CAE – STRUCTURAL ANALYSIS FROM DATA HUNTING TO DRAG & DROP

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ABSTRACT –

System-based CAE data management was introduced at Daimler 15 year ago. A brief overview of milestones, different approaches and challenges is given.

The main topic of this paper is the current process of data management starting with the PDM system SMARAGD and resulting in the FE-Models for structural computation.

The company wide switch from the CAD system CATIA to NX enforced major changes in the type, format and contents of the CAD data. Hence adaptations of the interface and CAE tools have been necessary. Using this opportunity the CAE processes as well have been reassessed and reimplemented leading to a lean and highly automated process based on ANSA and ANSA-DM.

This could only be achieved by using a CAD design boosting CAE automation.

Some of the effects of the new CAD design methodologies on CAE data management and the reasonable limits of automated processes are addressed.
