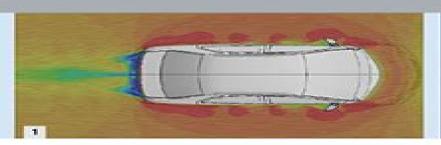
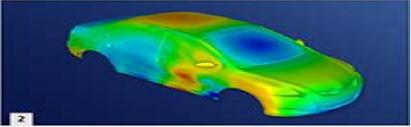


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- Aerodynamic simulation result in StarCCM».
- 2 Frequency response analysis on a door using Nastran and CDH tools.

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AERODYNAMIC LOADS IN A FULL-VEHICLE NVH ANALYSIS

Aerodynamic Induced Noise

Many vibration and acoustic effects in full vehicles are caused by fluctuating aerodynamic loads. Related tasks in automotive development are

- analysis of underbody paneling and attachment to body.
- analysis of engine hood flatter.
- interior acoustic analysis with external aero-acoustic loads.

In order to perform realistic noise vibration harshness (NVH) analysis, the exciting aerodynamic forces have to be taken into account.

MpCCI FSIMapper

The tool MpCCI FSIMapper builds the link between the simulation of the vehicle's aerodynamics and the NVH-simulation. It transfers the pressure excitation from the CFD calculation to the (not necessarily matching) NVH-mesh. The transient pressure fluctuations on the vehicle's surface can be automatically transformed by a Fourier decomposition in order to create the frequency dependent loading for the vibration enalysis.

The tool offers features such as windowing, time range filtering, and frequency truncation for the export.

For Nastran NVH analyses, the optimized export format "Bloed1_Opt" is available for efficient simulations using CDH/AMLS.

Cooperation with CDH AG

In 2016, CDH AG has been granted marketing, sales and support rights to distribute MpCCI solutions in North America and Japan.

Aerodynamic Loads In A Full Vehicle Nvh Analysis

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Aerodynamic Loads In A Full Vehicle Nvh Analysis:

Aerodynamic Loads In A Full Vehicle Nvh Analysis Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Aerodynamic Loads In A Full Vehicle Nvh Analysis**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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