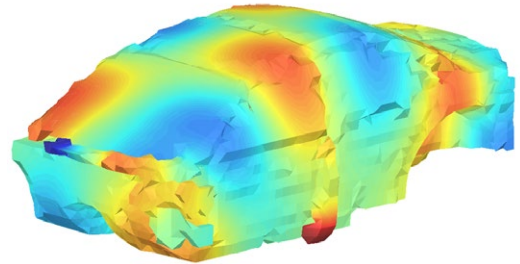


MSC Software ground vehicle initiatives

Increasing the performance of automotive systems with virtual prototype testing

Noise and vibration

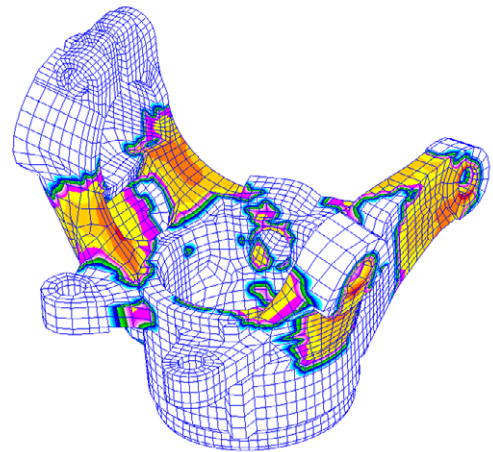
MSC has best in class technology to perform analytical prediction of noise and vibrations. You can analyze both interior and exterior acoustics of parts, assemblies or full vehicles. Actran also allows you to account for visco and poro-elastic materials such as cabin trim. Common issues already addressed by MSC include interior cabin noise, wind noise on mirrors, exhaust noise, fan noise, pass-by noise, and tire noise.



Acoustics simulation

Durability

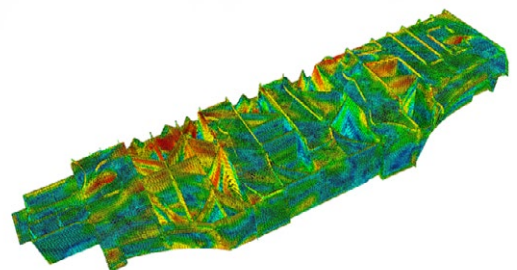
MSC's Nastran Embedded Fatigue (NEF) solution creates a unified open-technology platform for fatigue life optimization. Process results in 30-60% reduction in fatigue analysis timing and 90x reduction in file count while eliminating the need to move large files from one tool to another. NEF also allows fatigue to be used as an optimization parameter.



Fatigue life within a single tool

Lightweighting

We have best in class technology to improve analytical predictions and help select an optimal composite or multi-phase material. MSC allows you to conduct meaningful Finite Element Analysis by taking into account the anisotropic behaviors of unidirectional or woven composites or discontinuous fibers. This allows you to lightweight your structure to improve overall fuel economy while reducing your testing costs and providing a quality product.



Fiber orientations of an injection molded part





Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

MSC Software, part of Hexagon's Manufacturing Intelligence division, is one of the ten original software companies and a global leader in helping product manufacturers to advance their engineering methods with simulation software and services. Learn more at [mscsoftware.com](https://www.mscsoftware.com). Hexagon's Manufacturing Intelligence division provides solutions that utilise data from design and engineering, production and metrology to make manufacturing smarter.

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