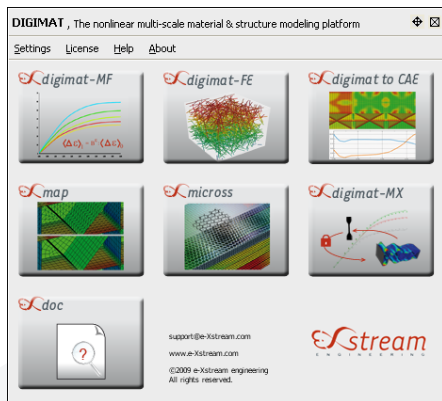


Digimat to RADIOSS interface is now available to the HyperWorks Enabled Community

This interface, and the related DIGIMAT products, will enable composite material suppliers and users to reduce the time and cost needed to develop innovative materials and structures. Digimat to RADIOSS interface will notably enable plastic suppliers and users to model the nonlinear and rate dependent behavior of reinforced plastic parts taking into account the local fiber orientation induced by injection molding process (e.g. 3D-Timon, Moldex-3D, Moldflow, Rem-3D, SigmaSoft,...).



DIGIMAT is based on state-of-the-art nonlinear multi-scale material modeling technology which enables one to predict the behavior of a multi-phase material based on the individual behavior of its constituent phases and on the underlying microstructure morphology.

DIGIMAT is used to :

- Understand and optimize the behavior of composite materials and structures;
- Reduce the physical testing of materials;
- Reduce the number of physical prototyping and testing cycles needed to develop composite structures;
- Reduce the weight of composite structure while optimizing their thermo-mechanical, thermal and electrical performance.

DIGIMAT is a software platform 100% dedicated to the advanced nonlinear modeling of multi-phase materials.

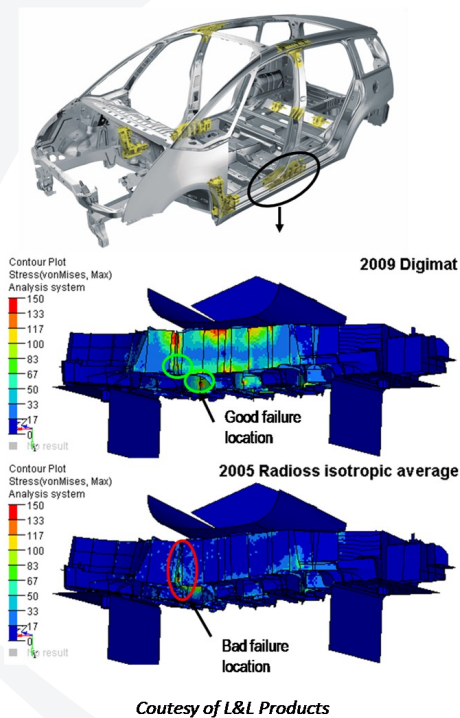
- Reinforced Plastics; GFRP, CFRP, LGFRP, ...
- (Nano) Composites; CNT, Nanoclays, ...
- Filled Rubber;
- Hard Metals; CoWC, ...
- Ceramics, ...

DIGIMAT is used by Materials Suppliers and their Customers.

- Material suppliers: to develop and optimize material performance (Mechanic, Thermal, Electric) and to support their customers
- OEMs and their suppliers in a large variety of industries including: Automotive; Aerospace; Consumer and Industrial Goods; Defense, ...

DIGIMAT is the industry standard for the modeling of reinforced plastic parts taking into account fiber orientation from injection molding.

DIGIMAT is interfaced to process simulation software (e.g. Injection Molding) and structural FEA software like RADIOSS to enable accurate and predictive modeling of composite structures. In the case of fiber reinforced plastics, DIGIMAT enables material and structural engineers to model the anisotropic, heterogeneous and strain-rate dependent behavior of the reinforced plastic taking into account the local fibers orientation induced by the injection molding process.



"Lightweight, Cost Efficiency, Predictive and Robust Design, Risk Management are relevant keywords in automotive projects. The key advantage provided by Digimat coupled to Radioss and others CAE software is a drastic predictivity improvement for glass filled polyamide materials. With an improved predictivity, optimal and robust lightweight design is then possible ..."

F. Braymand, Simulation Manager at L&L Products

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