e-Xstream engineering's Digimat 2018.0 – Ease and Efficiency for Reinforced Plastics, Additive Manufacturing, and Advanced Failure Modeling

Easy and Highly Efficient Workflow for Metal-to-Plastic replacement and the Optimized Additive Manufacturing of Polymers

NEWPORT BEACH, CA -- (December 14th, 2017) – e-Xstream engineering, an MSC Software Company, and developer of Digimat, the leading nonlinear multi-scale material and structure modeling platform, today announced the imminent release of Digimat state-of-the-art software.

Digimat 2018.0 includes major enhancements to Digimat-RP that bring new levels of efficiency for as-manufactured structural analysis of reinforced plastic components. A completely redesigned user interface welcomes the connection to more molding manufacturing data such as weld line, fiber volume fraction, fiber length, and residual stresses. Achieving a successful metal-to-plastic replacement with short or long fiber reinforced plastics as well as SMC has never been easier!

The Additive Manufacturing solution of Digimat 2018.0 has been enhanced along with its material/process/part performance capabilities, including:

- Material engineering virtual characterization of lattice structures in Digimat-FE
- Process simulation: enhanced physics in Digimat-AM to predict build failure and ensure tight control of tolerances
- Part performance: standard as-manufactured structural analysis workflow in Digimat-RP for confident part design
- This release also highlights the partnership of Stratasys with e-Xstream. Virtual printing and structural analysis of components made of ULTEM 9085 printed with Fortus 900mc are now possible through Digimat-AM and Digimat-RP solutions.

Predictable strength of short and long fiber reinforced plastic applications is further improved thanks to a new failure model based on polymer sensitivity to stress triaxiality. Furthermore, damage of such structures can now be modeled more precisely through a controllable damage law for precise energy dissipation predictions in crash simulation.

Digimat 2018.0 brings many additional new capabilities and enhancements (such as, AFP, and woven 3D). If you would like to watch the release webinar, please contact the Digimat team at: info@e-Xstream.com.

About e-Xstream engineering

Founded in 2003, e-Xstream engineering is a software and engineering services company 100% focused on the multi-scale modeling of composite materials and structures. The company helps customers, material suppliers, and material users across many industries reduce the cost and time needed to engineer innovative materials and products using Digimat, the nonlinear multi-scale material and structure-modeling platform. Since September 2012, e-Xstream engineering is a wholly owned subsidiary of MSC Software. The e-Xstream engineering corporate logo and Digimat logo are trademarks or registered trademarks of e-Xstream engineering SA. For additional information about MSC Software's products and services, please visit: http://e-xstream.com/

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