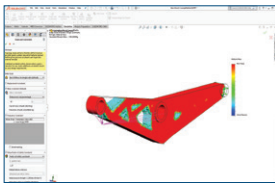


WHAT'S NEW IN SOLIDWORKS 2019—SIMULATION

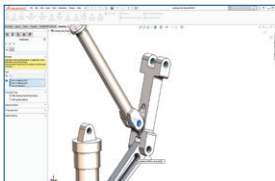


1 TOPOLOGY OPTIMIZATION

- New Stress and Frequency constraints and goals for optimum part stiffness and strength

Benefits

Optimize parts for more environments and scenarios.

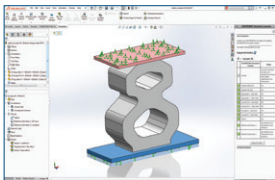


2 ENHANCED NL STUDY PIN CONNECTOR

- Improved accuracy for non-linear analysis involving pin-clevis type part connections

Benefits

Easier to set up complex studies.

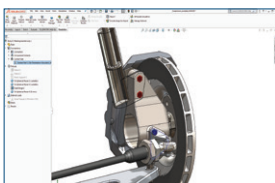


3 ENHANCED ONE CLICK CONNECTOR TO 3DEXPERIENCE PLATFORM

- Reuse SOLIDWORKS® Simulation data with SIMULIA® 3DEXPERIENCE® solutions

Benefits

Connect to high-end solvers and capabilities without rework.

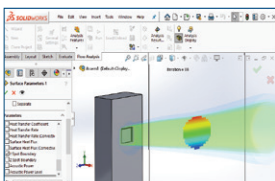


4 REUSE CONNECTORS/CONTACT SETS IN NON-LINEAR DYNAMIC STUDIES

- Reuse SOLIDWORKS Simulation data from other studies within Non-Linear Dynamic studies easily

Benefits

Easier to set up complex studies.

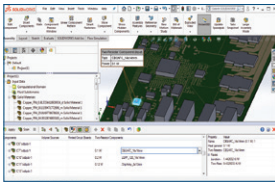


5 ENHANCED RESULTS TOOLS

- Flow Simulation 2019 delivers a greater range of flow results and options and options for Flow simulation

Benefits

More ways to present and help interpret results.

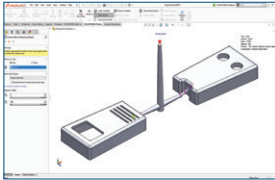


6 COMPONENT EXPLORER

- Easily create, query and edit group values for electronics components in Flow Simulation

Benefits

Faster and easier to make changes to the setup of studies.

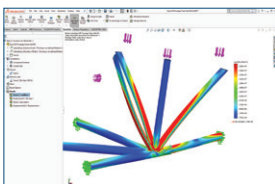


7 SOLIDWORKS PLASTICS SET-UP ENHANCED

- Now users can associate some boundary and set up conditions in SOLIDWORKS Plastics to the model geometry

Benefits

Quicker setup and "what if" studies; easier to share information.

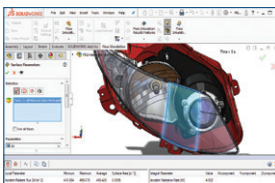


8 DISTRIBUTED COUPLING

- Improved load and displacement transfer between components connected by a bonded contact set for structural simulation

Benefits

More robust, accurate results.

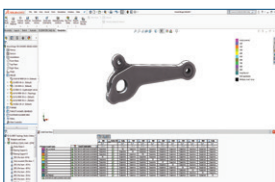


9 ENHANCED RADIATION CALCULATION

- The radiation flux can now be calculated in studies that include semi-transparent bodies

Benefits

Deliver better results when dealing with high temperatures.



10 SOLVER PERFORMANCE IMPROVEMENTS

- For structural simulation studies involving multiple load cases, the solvers have been improved for robustness and accuracy

Benefits

Make design decisions faster from simulation results.

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