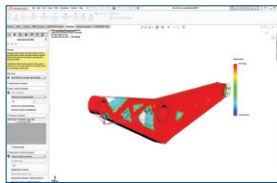




## WHAT'S NEW IN SOLIDWORKS 2019—SIMULATION

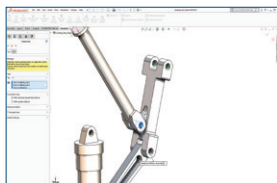


### 1 TOPOLOGY OPTIMIZATION

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

#### Benefits

Optimize parts for more environments and scenarios.

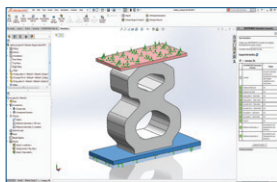


### 2 ENHANCED NL STUDY PIN CONNECTOR

- 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.

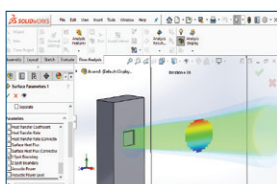


### 4 REUSE CONNECTORS/CONTACT SETS IN NON-LINEAR DYNAMIC STUDIES

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

#### Benefits

Easier to set up complex studies.

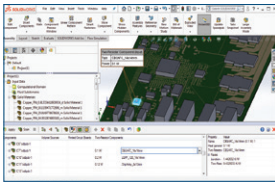


### 5 ENHANCED RESULTS TOOLS

- 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.

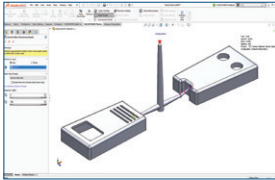


## 6 COMPONENT EXPLORER

- 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.

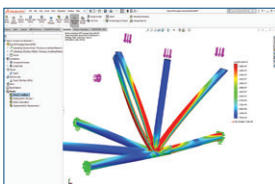


## 7 SOLIDWORKS PLASTICS SET-UP ENHANCED

- 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.

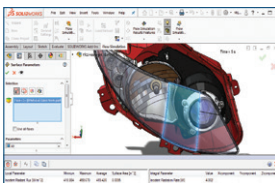


## 8 DISTRIBUTED COUPLING

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

### Benefits

More robust, accurate results.

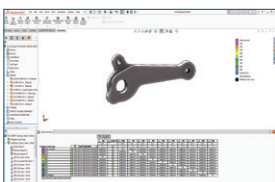


## 9 ENHANCED RADIATION CALCULATION

- 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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Dassault Systèmes, the **3DEXPERIENCE®** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 220,000 customers of all sizes in all industries in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).



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