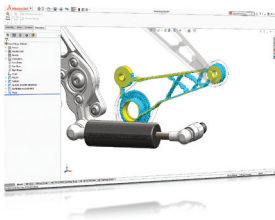


WHAT'S NEW IN SOLIDWORKS SIMULATION 2018: TOP TEN ENHANCEMENTS

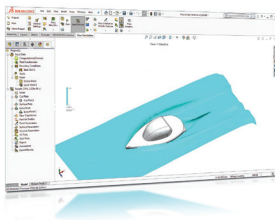


1 TOPOLOGY STUDY (SIMULATION PROFESSIONAL)

- Optimize the shape of your design based upon a target mass goals.
- Incorporate manufacturing and stiffness constraints to deliver manufacturable components.

Benefits

Find new and innovative minimum mass solutions to your design and simulation challenges.

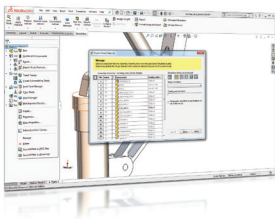


2 FREE SURFACE FLOW (FLOW SIMULATION)

- Solve flow problems where the liquid and gas touch—for example, channel, sea and river flow, tank filling, and emptying.

Benefits

Easily solve complex flow problems to ensure product performance.

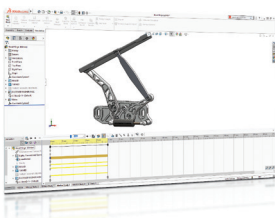


3 EASY ASSEMBLY SIMULATION SETUP (SIMULATION ALL)

- Simulation setup from parts can be imported into an assembly analysis.
- Re-use complex mesh and material quickly and easily.

Benefits

Accelerate assembly analysis.

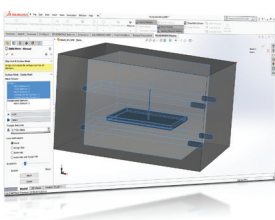


4 CONNECT THREE OR MORE SURFACES WITH THE ENHANCED PIN CONNECTOR (SIMULATION)

- Create and analyze multi-surface pin connections easily and with greater accuracy.

Benefits

Simplify the analysis of a common critical assembly process.

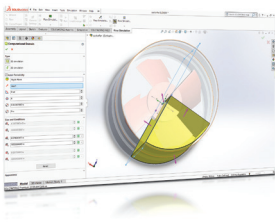


5 SIMPLIFIED AND AUTOMATED MESHING WORKFLOW (PLASTICS)

- Re-designed meshing process: it is more intuitive for you to create a mesh with automatic tools with mesh controls.

Benefits

Easy meshing tools for fast accurate results.,

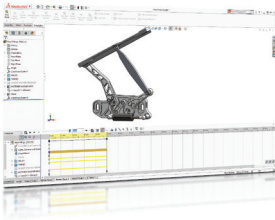


6 SIMPLIFY ANALYSIS DOMAIN WITH SECTOR PERIODICITY (FLOW SIMULATION)

- Simplify the analysis and accelerate problem solutions for geometries that have rotational periodicity without sacrificing accuracy.

Benefits

Accelerate and simplify flow analysis without compromising accuracy.

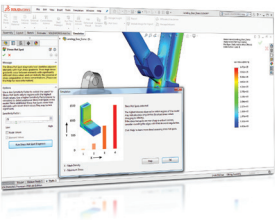


7 UPDATED ADAMS SOLVER (MOTION)

- The updated motion solver adds speed, reliability, and enhanced quality.

Benefits

Enhanced quality for motion simulation.

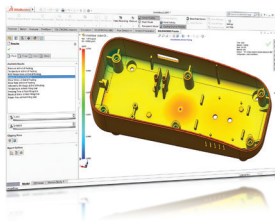


8 ENHANCED STRESS SINGULARITY DETECTION

- Locate and investigate stress singularities (or hot spots) at contacts areas and non re-entrant corners.

Benefits

Detecting and investigating stress singularities accelerates the analysis process and speeds the design process.

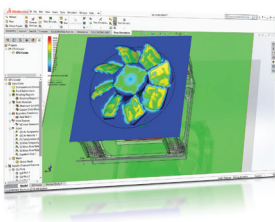


9 NEW RESULTS PLOT (PLASTICS)

- Use the Density at End of Pack simulation result as a guideline to evaluate the effectiveness of your packing stage.
- The Warp measure tool is enhanced to display the shrinkage amount (the distance between two reference nodes) both in terms of the absolute value (dR) and percentage value (dR[%]).

Benefits

Easily understandable results predict the components 'as molded' shape.



10 NOISE PREDICTION (FLOW)

- Flow simulation can now analyze time-dependent pressure data to predict noise values.

Benefits

Calculate and mitigate operational noise.

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