

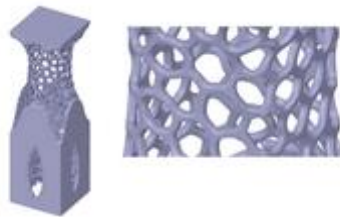
ANSYS Release 19.2 – 3D Design Update

ANSYS Discovery

Test ideas in seconds and validate them yourself without assigning to simulation experts. This provides the Discovery product family for every developer. [19.2]

Discovery SpaceClaim

- More overview in the application by regrouping the tools
- Fast geometry selection by means of inverse visibility
- STL data preparation
 - Local remeshing
 - New filling geometries for lattice structures with flowing transitions

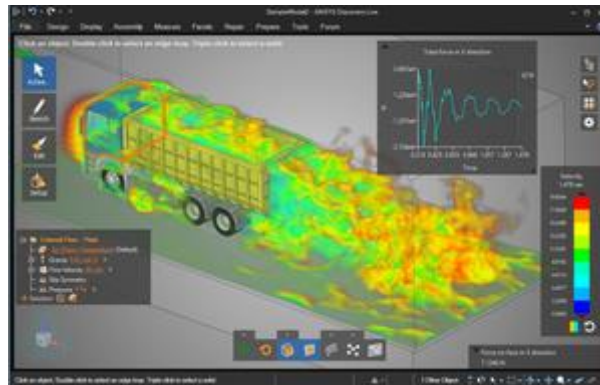


Lattice structures in SCDM

Discovery Live

- Revolutionary product development through live simulation. For more information and details see www.cadfem.de/discovery
- New CFD solver [19.1]
 - Significantly improved statements regarding pressure distribution (especially with long flow paths) [19.1]
 - improved boundary layer resolution [19.1]
 - nonreflective boundary conditions [19.1]
- additional boundary conditions for flow and structural mechanics [19.1]

- extended evaluations by new display types [19.1]
- Parameter studies [19.2]

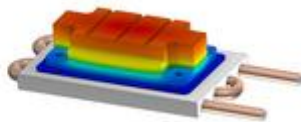


Live simulation with Discovery Live

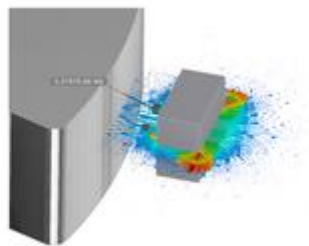
Discovery AIM

- Electrostatics
 - Determination of electrostatic stress distribution for high-voltage or insulation investigations [19.2]
- CFD
 - Orthotropic porosity
 - Multiple material definition in the solid state
 - Blow mold simulation for plastic containers [19.1]
- Mechanics
 - Live tracking of topology optimization
 - Simplified illustration of feathers
 - Preloaded modal analysis [19.1]
 - Smoothed Topology Optimization Geometry [19.1]
- Magnetics
 - Surface Integral Results ($B \cdot S$, $J \cdot S$)
 - Fill factor for wound conductors (loss calculation)
- Handling
 - Automated networking based on physical settings [19.1]
 - Result evaluation on lines

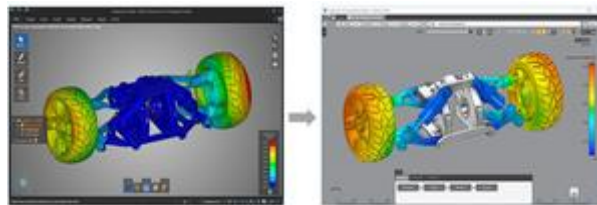
- Link to Discovery Live
- Export of result videos [19.1]
- Short report [19.2]
- Automated boundary conditions for more robust calculations [19.2]
- new presentations for fast results [19.2]



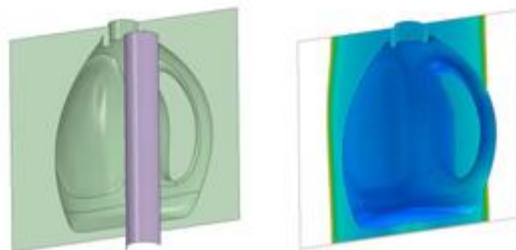
Assignment of different solid materials in CHT analyzes



Magnetic flux evaluated from surface integral



Linking Discovery Live to AIM



Wall thicknesses and temperature distributions when blow molding plastic containers [19.1]

*All information has been prepared to the best of our knowledge.
Information provided without guarantee.*