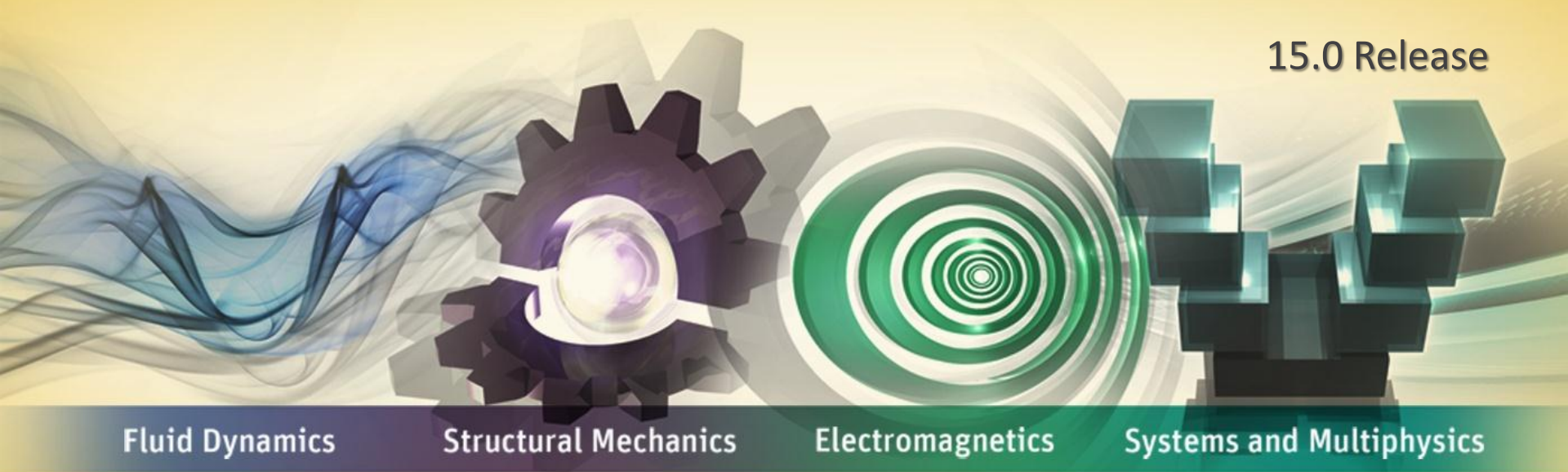


Appendix 2 Additional Geometry Tools

15.0 Release

A horizontal banner with a yellow-to-orange gradient background. It features four distinct 3D visualizations: blue fluid flow streamlines, a dark purple gear with a glowing center, a green concentric circular pattern, and a stack of teal cubes. Below these images is a dark teal bar containing four white text labels.

Fluid Dynamics

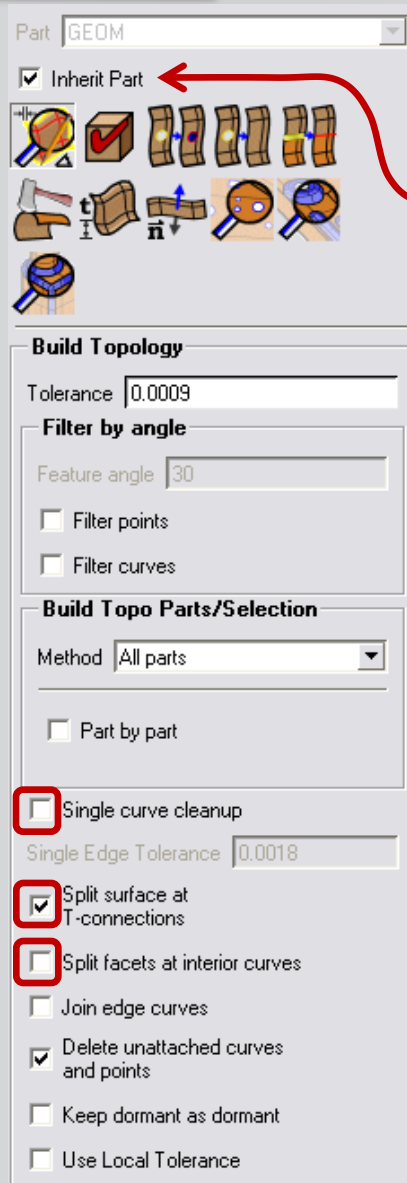
Structural Mechanics

Electromagnetics

Systems and Multiphysics

Introduction to ANSYS ICEM CFD

Building Topology – Other Options



• **New Part Name**

- **Inherit Part:** Default: new curves and points will inherit the part names from surfaces they are extracted from
 - Check off **Inherit Part** to type a new name or choose from the list

• **Single curve cleanup**

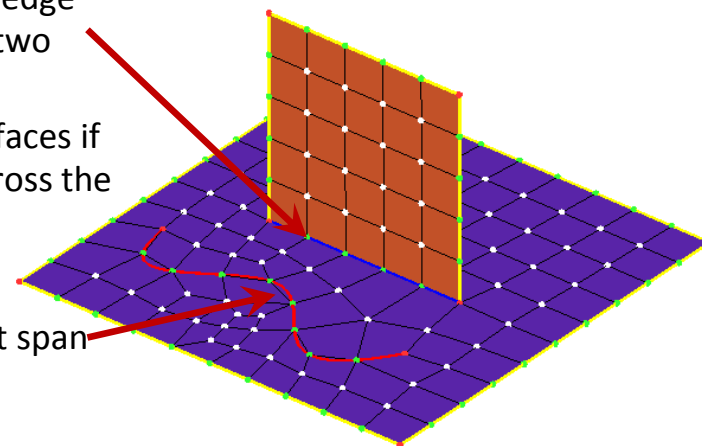
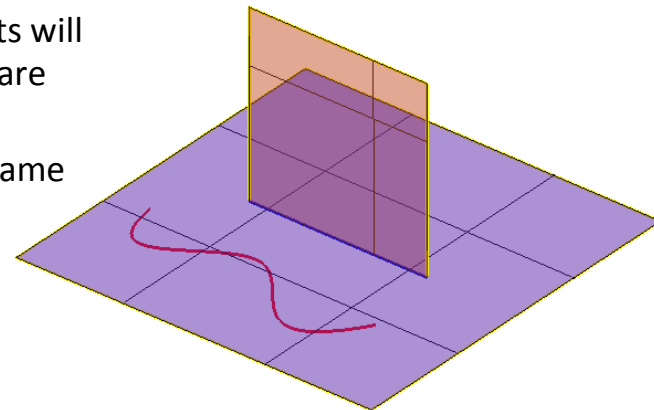
- Merges single edge curves with a second tolerance while resolving sliver surfaces (normally larger than base tolerance)

• **Split Surface at T-connections**

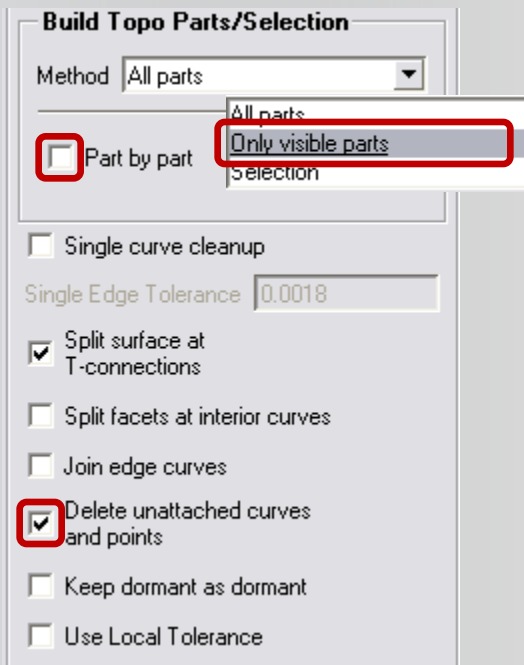
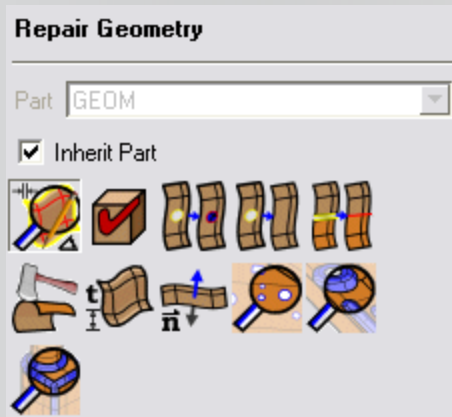
- Resulting mesh will conform to common edge even though the surface is not split into two separate surfaces
- Will also split a surface into separate surfaces if the curves form a closed loop or span across the surface

• **Split Surface at Interior Curves**

- Surfaces trimmed along curves that don't span surface or form a closed loop
- Resulting mesh will conform to curve



Building Topology – Other Options



- **Method**
 - **All parts**, default method
 - **Only visible parts**
 - Build topology is only run on active **Parts** in the model tree
 - Inactive Parts are not affected
 - **Selection**
 - Build topology on one or more selected surface entities
- **Part by part**
 - Build topology is run on one part at a time
 - Use with assemblies to keep parts separate
 - Otherwise build topology may fix gaps, create T-connections or remove duplicates across Parts
- **Delete unattached curves and points**
 - Removes unattached curves (green) and points after running build topology
 - Easy clean-up of unwanted curves/points
 - Users may, however, wish to keep these curves/points for construction purposes (turn option off)