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ANSYS Maxwell v14 7.4

Example (2D/3D Transient) - Core Loss

- ▲ **Prepare Geometry**
 - ▲ **To Import Geometry**
 - ▲ Select the menu item **Modeler > Import**
 - ▲ Locate the parasolid file **"transformer.x_t"** and **Open** it.
 - ▲ The geometry is of a transformer with core simplified in order to reduce the complexity. Users can bring the geometries directly and do simplification inside Maxwell.
 - ▲ **Change Attributes**
 - ▲ Press **Ctrl** and select the objects **LV_A, LV_B** and **LV_C** and goto their properties window,
 1. Change the color of the objects to **Orange**
 2. Change the transparency of the objects to **0**
 - ▲ Select the object **Core** from the history tree and goto Properties window,
 1. Change the transparency of the object to **0**
 - ▲ **Specify Excitations**
 - ▲ **To Create Coil Terminals**
 - ▲ Press **Ctrl** and select the objects **LV_A, LV_B** and **LV_C**
 - ▲ Select the menu item **Modeler > Surface Section**
 - ▲ In Section window,

684 / 1011 100%

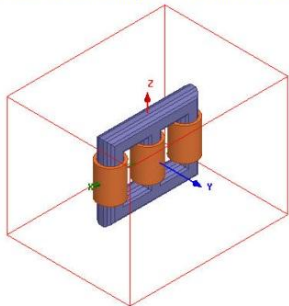
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- ▲ +/- X = 30
- ▲ +/- Y = 200
- ▲ +/- Z = 30
- ▲ **Note:** This small padding % is acceptable as fields are completely concentrated inside the magnetic core and there is little or no fringing



ANSYS Maxwell 3D Field Simulator v14 User's Guide 14.1-11

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Example (2D/3D Transient) - Core Loss

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