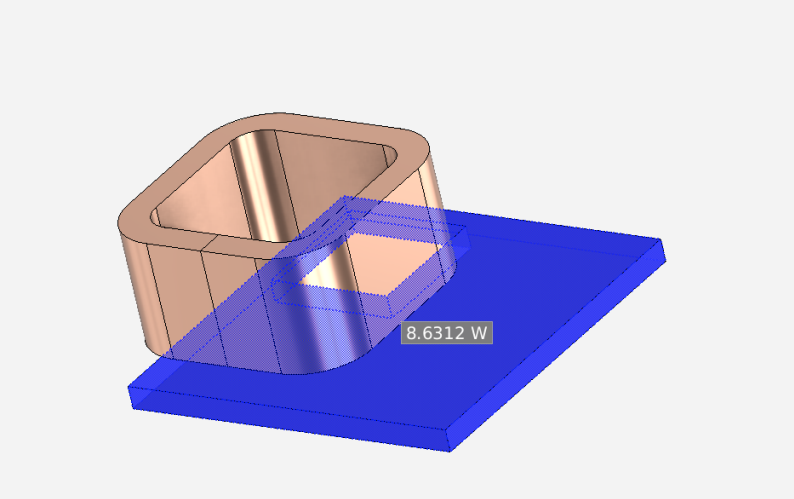
ANSYS AIM Eddy Current / Magnetic Frequency Response - Numerical Solution/Results

Authors: Joshua Wallace, Steve Scampoli

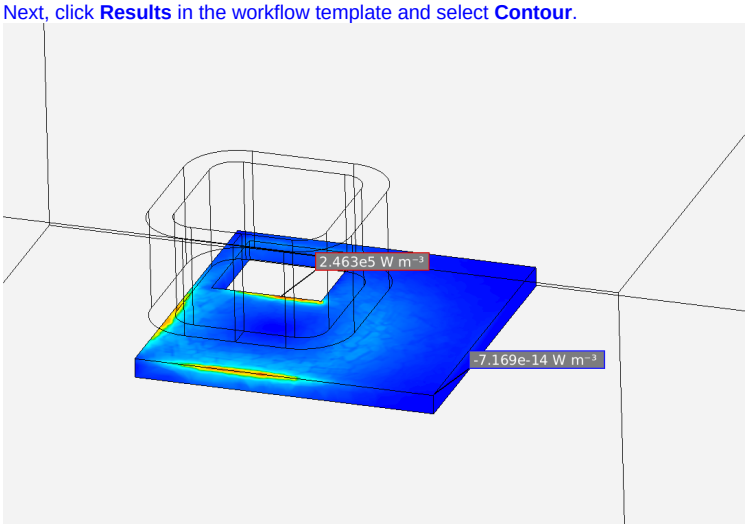
Problem Specification
1. Pre-Analysis & Start-Up
2. Geometry
3. Physics Setup
4. Numerical Solution/Results

Numerical Solution/Results

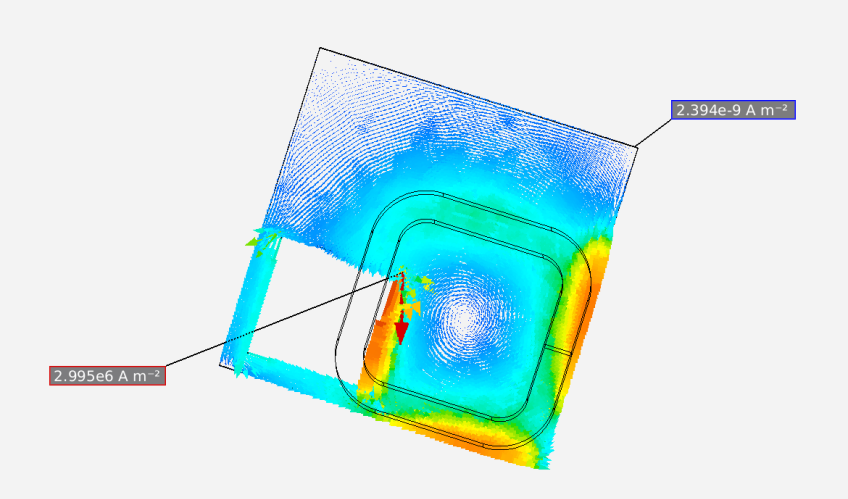
Click on **Results** in the workflow tab. Go to **Add** and select **Contour**. Choose the plate for **Location** and **Electromagnetic** > **Ohmic Loss Density** for the **Variable**. The other results we are interested in are current density and Ohmic Loss. Right click then click on **Add** > **Results** > **Vector**. Then select the top surface of the plate and change the variable to Right click then click on **Add** > **Results** > **Calculated Value**. Select the plate for **Location** and **Electromagnetic** > **Ohmic Loss** for the **Variable**. Right click in the empty area and press **Evaluate Results** to see the results.



Next, click **Results** in the workflow template and select **Contour**.



Next, click **Results** in the workflow template and select **Vector**.



This vector plot of current density plot shows that Eddy currents were induced in the plate by the sinusoidally varying current in the coil.

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