ANSYS AIM Eddy Current / Magnetic Frequency Response -Geometry

Authors: Joshua Wallace, Steve Scampoli

Problem Specification

1. Pre-Analysis & Start-Up

- 2. Geometry
- 3. Physics Setup4. Numerical Solution/Results

Geometry

Now the geometry can be imported into ANSYS AIM. Downloaded the geometry file of the coil here and click Next.

ANSYS AIM will then prompt for a geometry file. Select the coil geometry file and press Open.

Change the Calculation Type in the Magnetics: Physics template to Frequency response. Since the geometry already has a surrounding region, turn off Create Surrounding Region and click Finish.

| Magnetics: Physics |
|---|
| Calculation type: Static Frequency response |
| Physics coupling: Solid heating due to electromagnetic effects Electromagnetic effects due to solid heating |
| Options: Create surrounding region Compute impedance Compute force Compute torque |
| Typical settings and results will be defined automatically. Back Finish |

Go to Step 3: Physics Setup

Go to all ANSYS AIM Learning Modules