AIM Modal Analysis of a Wing - Physics Setup

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Problem Specification

- 1. Pre-Analysis & Start-Up
- 2. Geometry
- 3. Mesh
- 4. Physics Setup
- 5. Numerical Results
- 6. Verification & Validation

Physics Setup

Next, we will apply the boundary conditions to the geometry.

Summary of steps in above video:

- Change the material of the wing to a new material with the name Aluminum 6061-T6
- Add a density property of 2700 kg/m³
- Add an Isotropic Elasticity property, with Young's Modulus = 1e7 psi and Poisson's ratio = 0.33
- Add a fixed support on two edges of the wing's end

Go to Step 5: Numerical Results

Go to all ANSYS AIM Learning Modules