ANSYS AIM - Modal Analysis of a Satellite

Author: Joshua Wallace, ANSYS

Modal Analysis of a Satellite
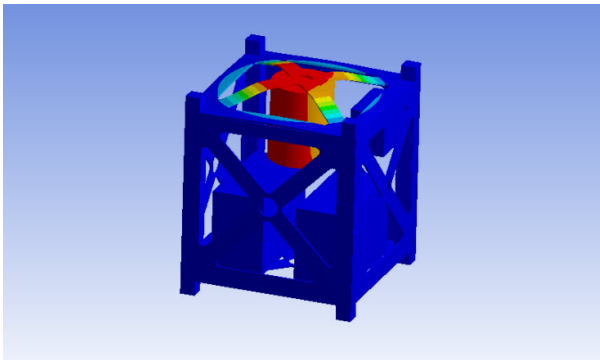
Created using ANSYS 17.1

Problem Specification

A simplified CubeSat is held in a rectangular box called a P-POD while being launched into orbit. The 1U CubeSat with legs has dimensions of 10.5cm x 10cm x 10cm. The structure is made of Aluminum 6061-T6. The CubeSat also contains boxes and a cylinder, which represent simplified internal components such as a main flight computer and the attitude control system.

Mock CubeSat

P-Pod Launcher

Go to Step 1: Pre-Analysis and Start-Up

Go to all ANSYS AIM Learning Modules