Modal Analysis of a Satellite - Numerical Solution

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Numerical Solution

In order to obtain modal shapes and their corresponding frequencies, we must insert a total deformation graphic for each mode we asked the solver to find in Analysis Settings. Do this by right clicking **Solution > Insert > Deformation > Total.**

Right click on the newly created **Total Deformation** tab and rename it **Mode 1**. We must assign each total deformation to a specific mode. Do this by selecting **Mode 1** and setting the **Mode** number under **Definition** to **1**. Repeat this process for modes 2 through 5. The details window for Mode 1 deformation is pictured below.

Details of "Mode 1"

Scope	
Scoping Method	Geometry Selection
Geometry	All Bodies
Definition	
Type	Total Deformation
Mode	1.
Identifier	
Results	
Minimum	0. m
Maximum	5.1565 m
Minimum Occurs On	Leg
Maximum Occurs On	Large Box 2
Information	

Go to Step 6: Numerical Results

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