

Challenge Tutorial 01: Using Design Variables and Parametric Analysis

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Introduction

Design variables provide a method for specifying critical parameters just before a simulation. This allows you to make quick changes to parameter values across single or multiple critical components without having to edit any schematic components. Design variables can also be used in simple parametric analysis, which can change a design variable across a range of values and display multiple simulation results on a single plot.

Using Design Variables

This part of the tutorial will show you how to parameterize the width of the shafts and flange thickness of an armature by using design variables. These variable values are then set using the **Running Through Environment** panel in simulation.

1. Make a copy of the assembly with subassemblies you have previously designed, or create a new one.
2. Open the subassemblies of the assembly.
3. Start with one of the SHAFTS subassemblies as depicted in, and name the parameter by either clicking on it and entering **Thickness**, or you can press "v" as a shortcut.
4. Define the unit in the width box, and type mm . This specifies that a variable called mm will be used to set the width of the SHAFT. When you do this, observe that values for "Thickness Difference Key" change from a constant value to a formula that involves the variable mm . Always check to make sure that formula is updated when you change the width to a variable otherwise, your simulation results will be incorrect. Click **OK** to apply the change.
5. Repeat this procedure to change the width of the FLANGE to mm .
6. Select **Check mm → Check and name**. Verify that there are no errors.
7. Launch the **Analysis Using Design Environment**.
8. Set up the simulation environment as you normally would for simulating a subassembly. This includes specifying a simulation file and material, mesh length, creating the MPN ID, mesh nodes in the environment options, and selecting the compute to be plotted on the schematic.
9. In **MPN**, select **Variables → Copy Properties**. The design variables mm and mm should appear in the Design Variables area of the **Running Environment Window**.
10. In **MPN**, select **Variables → Edit**. Clicked on mm . In the value box, type 2.5 and then apply the value by clicking **Apply**. Change the value of mm to 3.0 and click **Apply**. Check the values have been assigned, click **OK**. See Figure 1 and 2 below.
11. In **MPN**, use the connection by selecting **Simulation → Variable and Run**. After loading the the simulation to complete, the results window will pop-up. The results should be

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