

# Challenge Tutorial 01: Using Design Variables and Parametric Analysis

Created for the MSCE, M.Eng program by Casey Wallace  
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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 multiple or multiple critical components without having to edit any individual schematics. 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 schematics you have previously designed, or create a new one.
2. Open the schematics of the assembly.
3. Right click on the SHAFTS schematic to select it, and then its properties by either clicking on it and selecting **Properties**, or you can press "p" as a shortcut.
4. Define the **width** in the width box, and type  $var$ . This specifies that a variable called  $var$  will be used to set the width of the SHAFTS. When you do this, observe that values for "Characteristic Difference Keys" change from a constant value to a formula that involves the variable  $var$ . 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  $var$ .
6. Select **Check**  $\rightarrow$  **Check and Save**. Verify that there are no errors.
7. Launch the **Analysis** **Running Through Environment**.
8. Set up the simulation environment as you normally would for simulating a schematic. This includes specifying a simulation file and material properties, creating the APP ID, setting modes in the environment options, and selecting the compute to be plotted on the schematic.
9. In **APP**, select **Variables**  $\rightarrow$  **Copy All Variables**. The design variables  $var$  and  $var$  should appear in the Design Variables area of the **Running Environment** window.
10. In **APP**, select **Variables**  $\rightarrow$  **Value**. In the value box, type 1.0 and then apply the value by clicking **Apply**. Change the value of  $var$  to 2.0 and click **Apply**. Check the values have been assigned, click **OK**. See Figure 1 and 2 below.
11. In **APP**, use the connections by selecting **Simulation**  $\rightarrow$  **Variable and Run**. After loading the the simulation to complete, the results window will pop-up. The results should be

# Cadence Tutorial D Using Design Variables And Parametric

**JE Gale**



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