

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 Units 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 properties, creating the APP, if needed under in the environment options, and selecting the compute to be plotted on the schematic.
9. In **APP**, select **Variables \rightarrow Copy Properties**. The design variables mm and mm should appear in the Design Variables area of the **Running Environment Window**.
10. In **APP**, select **Variables \rightarrow Edit**, highlighted 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 Figures 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

Yicheng Fang



Cadence Tutorial D Using Design Variables And Parametric:

This book delves into Cadence Tutorial D Using Design Variables And Parametric. Cadence Tutorial D Using Design Variables And Parametric is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Cadence Tutorial D Using Design Variables And Parametric, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Cadence Tutorial D Using Design Variables And Parametric
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 - Chapter 3: Cadence Tutorial D Using Design Variables And Parametric in Everyday Life
 - Chapter 4: Cadence Tutorial D Using Design Variables And Parametric in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Cadence Tutorial D Using Design Variables And Parametric. This chapter will explore what Cadence Tutorial D Using Design Variables And Parametric is, why Cadence Tutorial D Using Design Variables And Parametric is vital, and how to effectively learn about Cadence Tutorial D Using Design Variables And Parametric.
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5. In chapter 4, this book will scrutinize the relevance of Cadence Tutorial D Using Design Variables And Parametric in specific contexts. The fourth chapter will explore how Cadence Tutorial D Using Design Variables And Parametric is applied in specialized fields, such as education, business, and technology.
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The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Cadence Tutorial D Using Design Variables And Parametric.

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