

# Challenge Tutorial 01: Using Design Variables and Parametric Analysis

Created for the ANSYS FLUENT program by Casey Wallace  
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## Document Contents

- Introduction
- Using Design Variables
- Running a Parametric Analysis
- Running Environmentally Parametric
- Notes about Design Variables and Parametric Analysis

## 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 parametrize the width of the **NOZZLE** and **FLANGE** members of an aircraft by using design variables. These variable values are then set using the **Running Through Environment** panel in simulation.

1. Make a copy of the aircraft with subcomponents you have previously designed, or create a new one.
2. Open the subcomponents of the aircraft.
3. Edit each one of the **NOZZLE** subcomponents as desired, and name the properties by using clicking on it and entering **Property**. For you can give "y" as a suffix.
4. Define the rest of the width from **width** to **width** (1). This specifies that a variable called **width** will be used to set the width of the **NOZZLE**. When you do this, observe that values for "Thickness Difference Key" change from a constant value to a formula that involves the variable **width**. 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 **width**.
6. Select **Check** => **Check and name**. 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 transient run length, creating the ANSYS mesh reader in the environment options, and selecting the compute to be plotted on the schematic.
9. In **ANSYS**, select **Variables** => **Copy Properties**. The design variables **width** and **height** should appear in the Design Variables area of the **Running Environment** window.
10. In **ANSYS**, select **Variables** => **Value**. In the value box, type **1** and then apply the value by clicking **Apply**. Change the value of **width** to **2**, **3**, **4**, and then **Apply**. Check the values have been assigned, click **OK**. See Figure 1 and 2 below.
11. In **ANSYS**, 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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## **Table of Contents Cadence Tutorial D Using Design Variables And Parametric**

1. Understanding the eBook Cadence Tutorial D Using Design Variables And Parametric
  - The Rise of Digital Reading Cadence Tutorial D Using Design Variables And Parametric
  - Advantages of eBooks Over Traditional Books
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  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
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  - Popular eBook Platforms
  - Features to Look for in an Cadence Tutorial D Using Design Variables And Parametric
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cadence Tutorial D Using Design Variables And Parametric
  - Personalized Recommendations
  - Cadence Tutorial D Using Design Variables And Parametric User Reviews and Ratings
  - Cadence Tutorial D Using Design Variables And Parametric and Bestseller Lists
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  - Cadence Tutorial D Using Design Variables And Parametric eBook Subscription Services
  - Cadence Tutorial D Using Design Variables And Parametric Budget-Friendly Options
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  - Cadence Tutorial D Using Design Variables And Parametric Compatibility with Devices
  - Cadence Tutorial D Using Design Variables And Parametric Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Cadence Tutorial D Using Design Variables And Parametric
    - Highlighting and Note-Taking Cadence Tutorial D Using Design Variables And Parametric
    - Interactive Elements Cadence Tutorial D Using Design Variables And Parametric
  8. Staying Engaged with Cadence Tutorial D Using Design Variables And Parametric
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Cadence Tutorial D Using Design Variables And Parametric
  9. Balancing eBooks and Physical Books Cadence Tutorial D Using Design Variables And Parametric
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Cadence Tutorial D Using Design Variables And Parametric
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Cadence Tutorial D Using Design Variables And Parametric
    - Setting Reading Goals Cadence Tutorial D Using Design Variables And Parametric
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Cadence Tutorial D Using Design Variables And Parametric
    - Fact-Checking eBook Content of Cadence Tutorial D Using Design Variables And Parametric
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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