

# Challenge Tutorial 02: Using Design Variables and Parametric Analysis

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Last Updated: 02/08/2016

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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, access 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 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**  $\rightarrow$  **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 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**  $\rightarrow$  **Units**. In the units box, type  $mm$  and then apply the value by clicking **Apply**. Change the value of  $mm$  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

**Judd E. Hollander**



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**analisa harga satuan pekerjaan tanah sesuai format sni dan** - Jan 17 2022

web career with ura be wary of phishing or scam attempts ura will not ask for personal information relating to your accounts such as your singpass id password or banking

metode pelaksanaan tanah dan urugan konstruksi - Oct 26 2022

web dec 21 2021 timbunan atau urugan tanah kembali adalah pekerjaan timbunan urugan yang material tanahnya berasal dari hasil pekerjaan galian tanah hasil galian yang akan

**pekerjaan urugan tanah panduan lengkap untuk mengenal** - Sep 05 2023

web may 30 2022 urugan tanah adalah pekerjaan konstruksi yang dilakukan untuk menambahkan lapisan tanah pada suatu area yang akan dibangun tujuan utama dari

**bab i pekerjaan tanah dasar kementerian pupr** - Feb 27 2023

web standar ini mencakup cara cara pembuatan timbunan dan urugan umum pada pekerjaan tanah yang meliputi hal hal yang mempengaruhi seperti desain faktor keamanan

**a 2 3 1 9 pengurugan kembali 1 m3 galian tanah** - Aug 24 2022

web dec 23 2021 pada dasar galian pondasi diberi urugan pasir padat setebal 5 cm padat pasir diratakan dengan menggunakan tarikan kayu dan selalu dikontrol ketebalan dari