

Solidworks tolerance analysis tutorial pdf

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TolAnalyst is used to analyze tolerance stackup in your assembly. TolAnalyst executes a tolerance analysis known as a study, which you create in four steps: StepMeasurement. Figure Solution Progress windowTolAnalyst Overview. The result of each study is a minimum and maximum tolerance stack, a minimum and maximum root sum squared (RSS) tolerance stack, and a list of contributing In this video, we go over DimXpertthe first step in setting up TolAnalyst on your assembly. Ability to create and display critical study dimensions directly on the 3D model. First you use the DimXpert tools to apply dimensions and tolerances to the parts or components in an assembly. Fast tolerance stack-up calculation of maximum and minimum “worst-case” and RSS for parts and assemblies. You can monitor the solution progress while the solution is running (Figure). This allows for optimization , · SOLIDWORKS is an easy to learn design and analysis tool (SOLIDWORKS Simulation, SOLIDWORKS Motion, SOLIDWORKS Flow Simulation, Use the TolAnalyst tools to perform “worst-case” tolerance stack-up analysis on assemblies. The initial step in developing a TolAnalyst study is to specify the measurement as a linear dimension between two DimXpert features. TolAnalyst is available only in SOLIDWORKS Professional Select Run to start the solutionfEngineering Analysis with SolidWorks Simulation The solution can be executed with different properties, which we will investigate in later chapters. You can define measurements between any of the DimXpert features Key Capabilities of TolAnalyst. Automatic extraction of dimensions and tolerances necessary for the analysis directly from the DimXpert for parts is a set of tools you use to apply dimensions and tolerances to parts according to the requirements of ASME Y and ISO You can then use the tolerances with TolAnalyst to perform stack analysis on assemblies, or with downstream CAM, other tolerance analyses, or metrology applications. Then you use the TolAnalyst tools to leverage that data for stack-up analysis. TolAnalyst TM is a tolerance analysis tool used to study the effects tolerances and assembly methods have on dimensional stack-up between two features of an assembly The purpose of a tolerance analysis model is to understand how part and assembly tolerances affect the overall build and fit of a final product. Intuitive and easy-to-use. DimXpert in Assemblies TolAnalyst™ is a tolerance analysis tool used to study the effects tolerances and assembly methods have on dimensional stack-up between two features of an assembly.

 Difficulté **Moyen**

 Durée **103 jour(s)**

 Catégories **Énergie, Bien-être & Santé, Sport & Extérieur, Jeux & Loisirs, Science & Biologie**

 Coût **379 USD (\$)**

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