

Autodesk CFD 2017 Essentials: Autodesk Authorized Publisher

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The *Autodesk® CFD 2017 Essentials* student guide instructs students in the use of the Autodesk® CFD software. The software provides computational fluid dynamics and thermal simulation tools to predict product performance, optimize designs, and validate product behavior before manufacturing. Through a hands-on, practice-intensive curriculum, students acquire the knowledge required to work in the Autodesk CFD environment to setup and conduct thermal and flow analyses on part and assembly models. Exercises are provided that cover electronic cooling, flow control, and AEC type models.

Topics Covered

- Open and navigate the Autodesk CFD environment to conduct flow and thermal analyses on part and assembly models.
- Use the Model Assessment Toolkit to investigate the suitability of model geometry for analysis, and use Autodesk® SimStudio Tools to make required changes to the CAD geometry.
- Create internal and external fluid volumes.
- Setup analyses by applying appropriate materials, boundary conditions and mesh settings.
- Refine mesh to obtain a proper solution.
- Apply appropriate solver settings to run your analyses and converge to an acceptable solution.
- Use the visualization tools to compare summary images, summary values, and summary plots of your analyses to compare design and scenario results of an Autodesk CFD analysis.
- Conduct a final validation of your solution by running through a validation checklist.

Prerequisites

This student guide assumes that a student has some Flow and Thermal analysis knowledge and can interpret results. The main goal of this student guide is to teach a user that is new to the Autodesk CFD software how to navigate the

interface to successfully analyze a model. This student guide was written using the 20160317 build of the Autodesk CFD 2017 software. The software user-interface and workflow may vary if newer versions of the software are being used. The exercises were completed using the advanced solver license. Instructions are provided to complete this class with a basic solver license.

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Editorial Review

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Shaun Richards:

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Andrea Behnke:

This Autodesk CFD 2017 Essentials: Autodesk Authorized Publisher is great guide for you because the content which is full of information for you who also always deal with world and possess to make decision every minute. This kind of book reveal it details accurately using great organize word or we can declare no rambling sentences inside. So if you are read this hurriedly you can have whole details in it. Doesn't mean it only provides straight forward sentences but tough core information with attractive delivering sentences. Having Autodesk CFD 2017 Essentials: Autodesk Authorized Publisher in your hand like having the world in your arm, info in it is not ridiculous just one. We can say that no book that offer you world in ten or fifteen small right but this guide already do that. So , it is good reading book. Heya Mr. and Mrs. stressful do you still doubt in which?

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