



Autodesk Nastran In-CAD 2016 (Subscription Advantage Pack Release): Essentials: Autodesk Official Training Guide

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The *Autodesk® Nastran® In-CAD 2016 Essentials* training guide instructs students in the use of the Autodesk® Nastran® In-CAD software. This training guide was written using the Subscription Advantage Pack (Sept 2015 release) version of the Autodesk® Nastran® In-CAD software (build 2016.1.0.37). The software is a finite element analysis (FEA) tool that is embedded directly in the Autodesk® Inventor® software as an Add-In. It is powered by the Autodesk Nastran solver and offers simulation capabilities specifically tailored for designers and analysts as a tool for predicting the physical behavior of parts or assemblies under various boundary conditions. Through a hands-on, practice-intensive curriculum, students acquire the knowledge needed to work in the Autodesk Nastran In-CAD environment to setup and conduct FEA analyzes on part and assembly models.

Topics Covered

- Activate and navigate the Autodesk Nastran In-CAD environment to conduct FEA analyzes on part and assembly models.
- Create, edit, and assign a physical property and materials (linear and nonlinear) for use in an analysis.
- Manage the creation, setup, and modification of analyses and subcases that are used to analyze models. Specific analyses types covered in this training guide include: Linear Static, Nonlinear Static, Nonlinear Transient Response, Normal Modes, Direct & Modal Frequency Response, and Direct & Modal Transient Response
- Create constraints with the required degrees of freedom and assign them to entities in the model.
- Create loads that accurately represent the magnitude and location of the loads the model will experience in the working environment.
- Create Connector elements in the FE Model to simulate how a physical connector such as a rod, cable, spring, rigid body, or bolt will affect the model.
- Create Surface Contact elements in the FE Model to define contact between interacting components in an assembly.
- Assign global and local mesh settings in the FE model.
- Run an Autodesk Nastran In-CAD analysis.
- Review and create result plots for analyzing the results of the analysis.

Prerequisites

This training guide assumes that a student has Finite Element Analysis (FEA) knowledge, can interpret results, and in general, knows how a model should be setup for an analysis. The main goal of this training guide is to teach a user that is new to the Autodesk® Nastran® In-CAD software how to navigate the interface to successfully analyze a model. This training guide was written using the Subscription Advantage Pack (Sept 2015) version of the Autodesk® Nastran® In-CAD software (build 2016.1.0.37). The software user-interface and workflow will vary if using earlier versions of the software are being used.

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