Advanced Surface Modeling

Updated for SolidWorks 2011

Length: 2 days

Prerequisites: SolidWorks Essentials, Advanced Part Modeling

Description: Surface Modeling teaches you how to build freeform shapes using SolidWorks mechanical design automation software.

The topics covered in this course are:

**Introduction**
About This Course
Using this Book
Windows® XP
Use of Color
Icons
Hide/Show Tree Items

**Lesson 1: Understanding Surfaces**
Solids and Surfaces
Working with Surface Bodies
Why Use Surfaces?
Continuity Explained
Workflow with Surfaces

**Lesson 2: Introduction to Surfacing**
Similarities Between Solid and Surface Modeling
Basic Surfacing

**Lesson 3: Solid-Surface Hybrid Modeling**
Hybrid Modeling
Using Surfaces to Modify Solids
Interchanging Between Solids and Surfaces
Performance Implications
Surfaces as Construction Geometry
Making Copies of Faces
Lesson 4: Repairing and Editing Imported Geometry
Importing Data
Repairing and Editing Imported Geometry

Lesson 5: Advanced Surface Modeling
Ruled Surfaces
Lofting Surfaces
Filled Surface
Conclusion
Design Changes

Lesson 6: Blends and Patches
Complex Blends
Smoothing Patches
Boundary Surface
Freeform Feature
Corner Blends

Lesson 7: Master Model Techniques
Introduction to Master Models
Surface Master Model Technique
Working with a Solid Master Model
SolidWorks Explorer