



MLC CAD Systems

SolidWorks Advanced Part Modeling 2010

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Length: 2 days

Prerequisites: SolidWorks Essentials

Description: Advanced Part Modeling teaches you how to use multi-body solids, sweeping and lofting features, and the more advanced shaping capabilities of SolidWorks.

Lesson 1: Multibody Solids

Multibody Solids
Bridging
Introducing: Solid Bodies Folder
Extrude From
Local Operations
Combined Bodies
Introducing: Combine
Common Bodies
Tool Body
Introducing: Insert Part
Introducing: Move/Copy Bodies
Introducing: Mate Reference
Patterning
Indent Feature
Using Cut to Create Multibodies
Saving Solid Bodies as Parts and Assemblies
Introducing: Insert into New Part
Feature Scope
Introducing: Save Bodies
Splitting a Part into Multibodies
Introducing: Split
Creating an Assembly
Introducing: Create Assembly
Using Split Part with Legacy Data

Lesson 2: Sweeps

Introduction
Sweeping
Case Study: Modeling a Spring
Sweeping Along a 3D Path
3D Sketching
Introducing: Helix and Spiral
Introducing: Projected Curve
Introducing: Composite Curve
Sweeping
Introducing: Sweep
Introducing: Fit Spline
Case Study: Bottle
Sweeping and Lofting: What's the Difference?
Creating a Curve Through a Set of Points
Introducing: Insert Ellipse
Sweep Options
The Label Shape
Working with a Non-planar Path
Variable Radius Filletting
Introducing: Split Lines
Analyzing Geometry

Lesson 2: Sweeps (Cont.)

Introducing: Display Curvature
Introducing: Show Curvature Combs
Introducing: Intersection Curve
Zebra Stripes
Introducing: Zebra Stripes
Filletting the Label Outline
Selecting Edges
Introducing: Select Loop
Performance Considerations
Modeling Threads
Orientation and Twist Control
Align with End Faces
Sweeping Along Model Edges
Introducing: SelectionManager
Sweeping a Tool Body

Lesson 3: Lofts and Splines

Basic Lofting
Introducing: Loft
Using Derived and Copied Sketches
Copying a Sketch
Derived Sketches
Introducing: Insert Derived Sketch
Centerline Lofting
Introducing: Split Entities
Cleaning Up a Model
Introducing: Delete Face
Introducing: Deviation Analysis
Spline Sketching
Introducing: Spline
Advanced Lofting
Sketch Picture
Introducing: Sketch Picture
Layout Sketches

Lesson 4: Other Advanced Tools

Advanced Fillets
Wrap Feature
Introducing: Wrap
Deform Feature
Introducing: Deform
Introducing: Knit Surface
Move Face and Delete Face
Introducing: Move Face
Using 3D Sketch with the Hole Wizard

