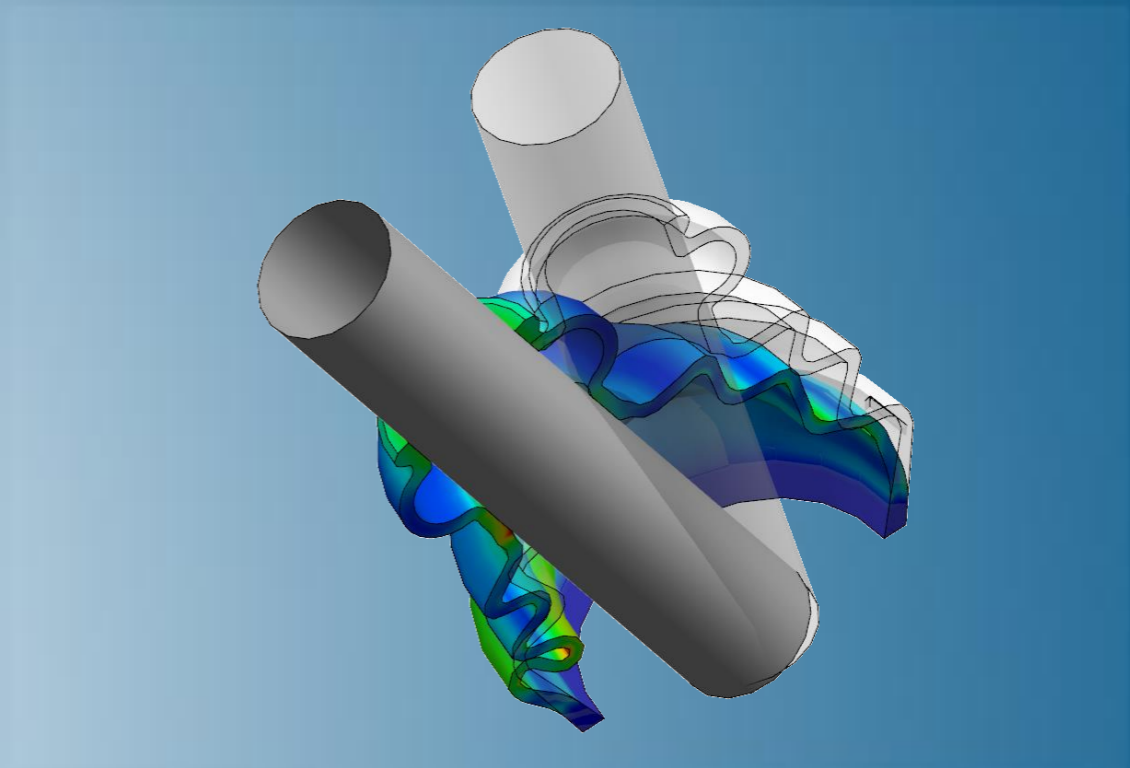


Physics Results Explorer Essentials

R2017x



3DEXPERIENCE[®]



About this Course

Course objectives

Upon completion of this course you will be able to:

- ▶ View and evaluate simulation results

Targeted audience

This course is intended for the following roles:

- ▶ Simulation Results Analyst
- ▶ Mechanical Analyst
- ▶ Structural Vibration Analyst
- ▶ Noise & Vibration Analyst
- ▶ Fluid Mechanics Analyst
- ▶ Multiphysics Simulation Researcher
- ▶ Structural Analysis Engineer
- ▶ Steel Ship Structural Analysis Engineer

Prerequisites

The following course is required prior to taking this one:

- ▶ None



4 hours

Day 1

- ▶ Lesson 1 Basic Postprocessing
- ▶ Workshop 1 Automotive Boot Seal, Part 1
- ▶ Lesson 2 Advanced Postprocessing
- ▶ Workshop 2a Automotive Boot Seal, Part 2
- ▶ Workshop 2b External Flow over a Car
- ▶ Workshop 2c Composite Yacht Hull

Additional Material

- ▶ Appendix 1 High Performance Visualization
- ▶ Appendix 2 Cloud-based Simulation Roles

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> By Location
> By Course

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> By Location
> By Course

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> Full Schedule

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Revision Status

Lesson 1	1/17	Updated for R2017x
Lesson 2	1/17	Updated for R2017x
Appendix 1	1/17	Updated for R2017x
Appendix 2	1/17	New for R2017x
Workshop 1	1/17	Updated for R2017x
Workshop 2a	1/17	Updated for R2017x
Workshop 2b	1/17	Updated for R2017x
Workshop 2c	1/17	Updated for R2017x

Lesson 1: Basic Postprocessing

Lesson content:

- ▶ Introduction
- ▶ Searching and Opening Simulation Results
- ▶ Importing Results
- ▶ Model Plots
- ▶ History Plots
- ▶ Workshop Preliminaries



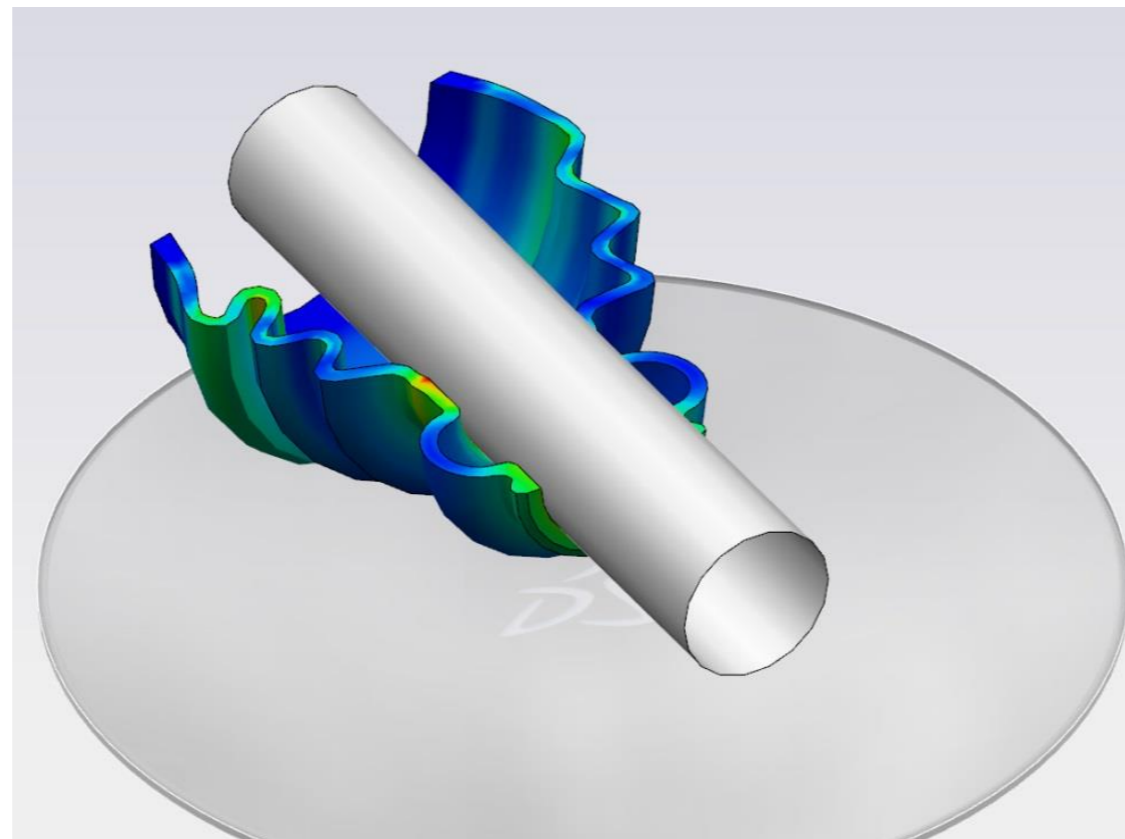
60 minutes

Workshop 1: Automotive Boot Seal, Part 1

In this workshop, you will open and postprocess a native simulation of an automotive rubber boot seal. The boot seal is mounted onto a rigid shaft in the first general static step and then the shaft is rotated by 20 degrees in the second general static step. The base of the rubber boot is clamped. Since the structure is symmetric about the XY plane, only half of the geometry has been modeled, using symmetry boundary conditions, to save computation time.

After completion of this exercise, you will be able to:

- a. View the basic results for a structural simulation.



30 minutes

Lesson 2: Advanced Postprocessing

Lesson content:

- ▶ Animations
- ▶ Display Groups
- ▶ View Cuts
- ▶ Comparisons
- ▶ Composite Ply Plots
- ▶ Envelope Plots
- ▶ Sensors
- ▶ Streamlines
- ▶ Exporting Results
- ▶ File Management
- ▶ Tips & Tricks



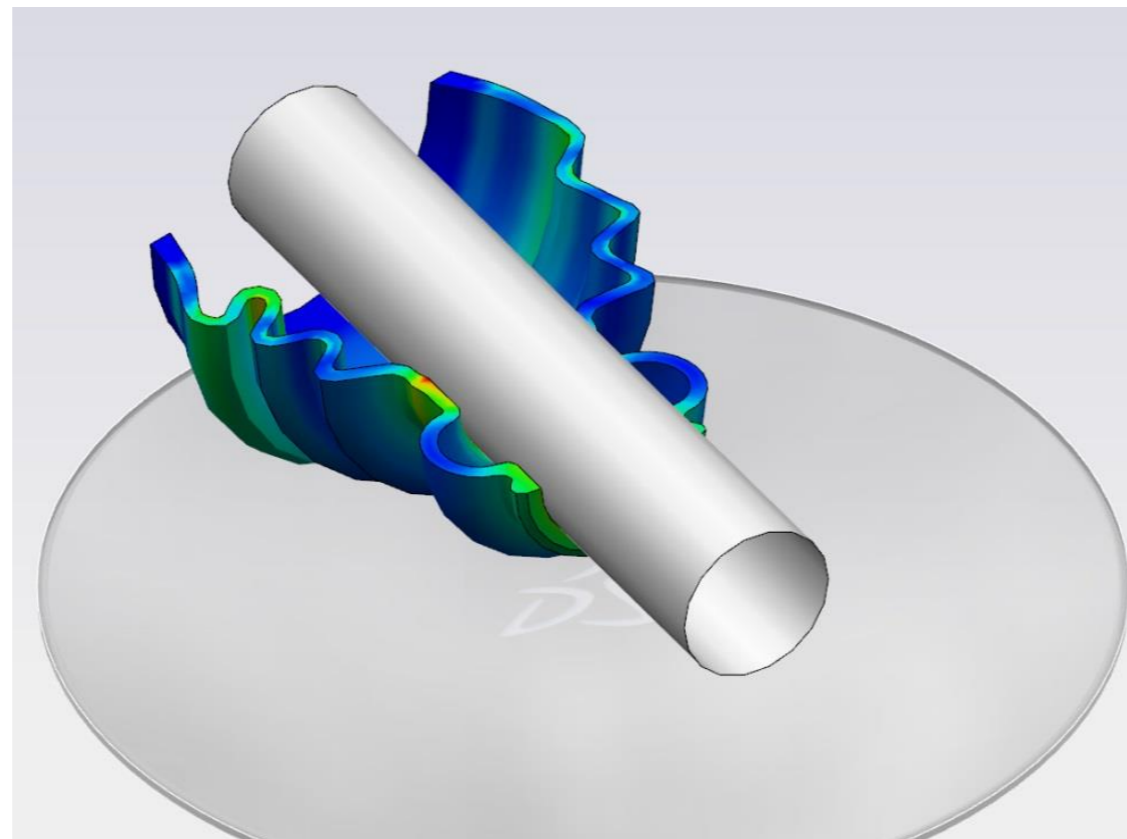
60 minutes

Workshop 2a: Automotive Boot Seal, Part 2

In this workshop you will continue postprocess the automotive rubber boot seal from Workshop 1.

After completion of this exercise, you will be able to:

- a. View the more advanced results for a structural simulation.



20 minutes

