

Learning Module

Non-parametric Optimization with Abaqus

The objective of this seminar is to introduce users to the non-parametric optimization capabilities available in “Tosca for Abaqus”. An easy to use interface native to Abaqus/CAE is available for the setup, execution, monitoring and postprocessing of topology, shape and sizing optimization problems. In combination with Abaqus analysis products, Tosca for Abaqus offers an unparalleled structural optimization capability for highly nonlinear problems.

Objectives

Apply topology, shape, sizing and bead optimization techniques to your designs and produce lightweight, strong and durable components.

Reduce iterations of designs.

Use the optimization interface in Abaqus/CAE for setup, execution, monitoring and postprocessing of topology, shape, sizing and bead optimization problems.

Use Tosca’s structural optimization capability for highly nonlinear problems.

Knowledge Prerequisites

Some familiarity with Abaqus/CAE is useful but not required.

Brands

Simulia

Available Releases

SIMULIA 2016, SIMULIA V6.14

Duration

8 hours

Discipline

Tosca Structure, Advanced Abaqus

Language(s) for selected release

English

Contents

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