

Learning Module

FSI Simulation Using Abaqus and 3rd Party Codes

This seminar provides an introduction to the FSI capability using 3rd-party CFD codes, with an emphasis on enabling users to get started utilizing the capability effectively. Several examples using both Abaqus/Standard and Abaqus/Explicit are used throughout the seminar to illustrate the types of problems that can be solved.

Objectives

Upon Completion Of This Course You Will Be Able To:

- Evaluate FSI applications.
- Create compatible FE and CFD models for FSI.
- Run FSI problems.
- Develop co-simulation strategies.
- Use time incrementation options.

Knowledge Prerequisites

None

Language(s) for selected release

English

Brands

Simulia

Available Releases

SIMULIA 2020, SIMULIA 2019, SIMULIA 2018, SIMULIA 2017, SIMULIA 2016, SIMULIA V6.14, SIMULIA V6.13, SIMULIA V6.12

Duration

8 hours

Discipline

Advanced Abaqus

Contents

Overview - FSI Simulation with Abaqus and Third-party CFD Codes

1 - Introduction

2 - Technical Details

3 - Conducting an FSI Simulation using Abaqus

4 - Classifying FSI Applications

5 - Miscellaneous Topics

A1 - An Overview of CFD for Structural Analysts