

Learning Module

Structural-Acoustic Analysis Using Abaqus

This seminar covers the fundamentals of acoustics phenomena and then shows how to use Abaqus to solve a wide range of acoustics problems.

Objectives

Upon Completion Of This Course You Will Be Able To:

- Pure acoustics analysis.
- Coupled structural-acoustic analysis.
- Scattering and shock analysis.
- Mesh size and mesh density effects for different analysis procedures.
- Acoustic analysis output and postprocessing

Knowledge Prerequisites

None

Language(s) for selected release

English

Contents

Overview - Structural-Acoustic Analysis with Abaqus

- 1 – Introduction
 - 2 - Overview of Abaqus Acoustics
 - 3 - Modeling Acoustic Domains
 - 4 - Acoustic-Structure Coupling – Part 1
 - 5 - Acoustic-Structure Coupling – Part 2
 - 6 - Frequency Domain Acoustic Scattering
 - 7 - Acoustic-based Shock Simulation
 - 8 - Additional Examples
- Appendices

Brands

Simulia

Available Releases

SIMULIA 2021, SIMULIA 2020, SIMULIA 2019, SIMULIA 2018, SIMULIA 2017, SIMULIA 2016, SIMULIA V6.14, SIMULIA V6.13, SIMULIA V6.12

Duration

16 hours

Discipline

Advanced Abaqus