

Blast Analysis Abaqus

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~~over the Structure in Abaqus Simulation SANDWICH PLATE UNDER~~
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Fully-coupled Eulerian-Lagrangian blast load analysis using Abaqus/Explicit-CEL 4.1 Overview The goal is to create a fully-coupled model which can handle the blast wave propagation through air, the blast wave interaction with the structure, and the associated structural response of the system.

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The following Abaqus features are demonstrated: applying CONWEP blast loading, comparing computational results using Abaqus/Explicit and experimental measurements of deformation of sandwich structures under blast loads, and demonstrating a generic example of a nonlinear analysis of a sandwich structure.

Deformation of a sandwich plate under CONWEP blast loading
In this research, a detailed 3-D finite element model is developed by ABAQUS package for an existing six-story reinforced concrete framed structure in Saudi Arabia to study its response under blast loads. The building is office

building designed for dead, live, wind and seismic loads.

Assessment of structural response of an existing structure

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The first computational blast analysis examined herein relates to a doublewalled storage tank - subjected to a postulated external vapor cloud explosion. A complete, elastic-plastic, three dimensional finite element model was constructed in Abaqus/CAE using linear shell elements (Abaqus S4 elements).

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