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The application of ABAQUS in seismic analysis of connected structures Jiachun Cui, Chengming Li, Wei Tian, Dongya An
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The seismic analysis is performed using the EI Centro N-S acceleration history, which is discretized every 0.01 second. An exact benchmark solution is readily obtained by integrating the eigenvalues and eigenvectors of the structure exactly in time over the first 10 seconds of the acceleration input (see, for example, Hurty and Rubinstein, 1964).

Analysis of a cantilever subject to earthquake motion

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By Seismic Analysis, you mean Time History Analysis using a seismic record? If this is what your looking for, you can do this by proceeding as follows (I assume your frame was correctly modeled):...

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Seismic Analysis Tutorial Abaqus - elizabethviktorija.com The ABAQUS/Explicit simulation requires a very large number of increments since the stable time increment (6×10^{-6} sec) is much smaller than the total duration of the earthquake (10 sec). The analysis is run in double precision to

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Therefore, we apply the gravity and hydrostatic loads in an

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ABAQUS/Standard analysis. These results are then imported into ABAQUS/Explicit to continue with the seismic analysis of the dam subjected to the earthquake accelerogram. We still need to continue to apply the gravity and hydrostatic pressure loads during the explicit dynamic step.

2.1.15 Seismic analysis of a concrete gravity dam

Abstract. The nuclear industry currently employs a limited and ageing range of computational tools for seismic and soil – structure interaction analysis. This paper presents a set of new tools that have been developed for two and three-dimensional seismic analysis in Abaqus. The tools include a group of new elements that can be used to implement the free-field boundary method in Abaqus and a free-field mesh generator.

Towards a complete framework for seismic analysis in ...

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This paper presents an idealized two dimensional plain strain finite element seismic soil-tunnel interaction analysis using ABAQUS v.6.8 program. The analysis performed by considering three actual ground motion records representing seismic motions with low, intermediate and high frequency content.

Finite Element Seismic Analysis of Cylindrical Tunnel in ...

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