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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.

Seismic analysis of a simple column in abaqus - YouTube

The tutorial manual also available with this software. Student version of the software is available but you won't get complete future in student version. Also, you have an option to choose ABAQUS ...

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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.

Towards a complete framework for seismic analysis in ...

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2.1.15 Seismic analysis of a concrete gravity dam

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How I can make a seismic analysis in ABAQUS?

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ABAQUS/Explicit simulation requires a very large number of increments since the stable time increment ($6 \times 10 - 6$ 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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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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This video will talk about the general procedures to do seismic analysis of frame structure in structural engineering. In practical application, there would ...

The application of ABAQUS in seismic analysis of connected ...

Therefore, we apply the gravity and hydrostatic loads in an 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.

Analysis of a cantilever subject to earthquake motion

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The application of ABAQUS in seismic analysis of connected structures Jiachun Cui, Chengming Li, Wei Tian, Dongya An Technical Center of Shanghai Xian Dai Architectural Design (Group) Co.,Ltd. 20F, 258 Shimen Er Road, Shanghai, China. 200041 Jiachun_cui@xd-ad.com.cn, chengming_li@xd-ad.com.cn, Wei_tian@xd-ad.com.cn, dongya_an@xd-ad.com.cn

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The seismic analysis is performed using the El 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).

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