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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.

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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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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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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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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.

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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.