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ABAQUS Example Problems Manual 2.1.15 Seismic analysis of a concrete gravity dam. Products: ABAQUS/Standard ABAQUS/Explicit . In this example we consider an analysis of the Koyna dam, which was subjected to an earthquake of magnitude 6.5 on the Richter scale on December 11, 1967.

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The model is described in detail in Cast iron plasticity, Section 4.3.7 of the ABAQUS Theory Manual. Flow rule. For the purposes of discussing the flow and hardening behavior, it is useful to divide the meridional plane into the two regions shown in Figure 18.2.102.

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ABAQUS: Example Problems Manual, Volume 2. Hibbitt, Karlsson & Sorensen, 2001 - ABAQUS (Computer program language) 1 Review. From inside the book . What people are saying - Write a review. We haven't found any reviews in the usual places. Contents. Mass Diffusion Analyses . 6:

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Abaqus can perform many types of analyseslinear or nonlinear, static or dynamic, etc. (see Defining an analysis, Section 6.1.2). The type of analysis can be changed from step to step. For example, in Abaqus/Standard a static preload can be analyzed first, then the response type can be changed to transient dynamic.

~~Abaqus Analysis User's Manual (6.12)~~

In Abaqus/Explicit you can also specify the limiting values of velocity in the available components as a criterion for locking. Velocity-dependent locking criteria are useful in modeling seatbelt systems in automobiles (see Seat belt analysis of a simplified crash dummy, Section 3.3.1 of the Abaqus Example Problems Manual). Moreover, the limiting values can be dependent on temperature and field variables.

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Abaqus Car Crash Example. This is an explicit benchmark problem on Abaqus - a car crashing into a rigid wall at 25mph. The complexity, speed and dynamic nature of the impact/contact conditions is a good example of Abaqus/explicit applications. The car is modeled with a von mises material with isotropic hardening. This model has 200,000+ elements.

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Several different finite element meshes were used in ABAQUS simulations of the cantilever beam problem, as shown in Figure 43. The simulations use either linear or quadratic, fully integrated elements and illustrate the effects of both the order of the element (first versus second) and the mesh density on the accuracy of the results.