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Seismic analysis of a concrete gravity dam.

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this example we

consider an analysis of

the Koyna dam, which

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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

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useful to divide the meridional plane into the two regions shown in Figure 18.2.10□2.

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Examples Guide This guide contains detailed examples designed to illustrate the approaches and decisions needed to perform challenging, real-world linear and nonlinear analysis.

Many of the examples are worked with several different element types, mesh densities, and other variations.

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Abaqus can perform many types of analyses—linear or nonlinear, static or dynamic, etc. (see [Defining an analysis, [Section 6.1.2). The type of analysis can be

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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.

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In Abaqus/Explicit you can also specify the limiting values of

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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

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values can be dependent
on temperature and field
variables.

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Abaqus Car Crash

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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

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isotropic hardening.

This model has

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Several different finite
element meshes were
used in ABAQUS

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Examples of the cantilever beam problem, as shown in Figure 4-3. 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.

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