

Abaqus Nonlinear Analysis Tutorial

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Solving nonlinear problems

For each iteration in a nonlinear analysis Abaqus/Standard forms the model's stiffness matrix and solves a system of equations. Therefore, the computational cost of each iteration is close to the cost of conducting a complete linear analysis, making the computational expense of a nonlinear analysis potentially many times greater than the cost ...

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ABAQUS Tutorial rev0 - Institute for Advanced Study

Abaqus offers a wide range of capabilities for simulation of linear and nonlinear applications. Problems with multiple components are modeled by associating the geometry defining each component with the appropriate material models and specifying component interactions. In a nonlinear analysis Abaqus automatically chooses appropriate

7.3 Including nonlinearity in an ABAQUS analysis

ABAQUS will apply 20% (1.0/5.0) of the total load in the first increment, and it will terminate the analysis if it has problems converging and requires an increment smaller than 0.0001. If the time increment grows because the solution is converging easily, the maximum time increment ABAQUS can use is 1.5.

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