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# **Obtaining A Converged Solution With Abaqus**

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Obtaining a Converged Solution with Abaqus  
This course teaches how non-linear problems are solved. You will learn to develop models that will converge and how to identify modelling errors that cause models to experience convergence difficulties.

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## **Obtaining a Converged Solution with Abaqus**

### **Training | TECHNIA**

#### **3 AGGLOMERATION**

MULTIGRID. The difficulty of obtaining a converged solution for explicit schemes is well known, and results from good damping of high frequency errors, but poor damping of low frequency errors. The initial residual can be reduced quite

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efficiently up to a certain point, beyond which more and more iterations are required to reduce the residual by a certain amount until a converged solution is obtained.

**Converged Solution -  
an overview |**

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Obtaining a Converged  
Solution with Abaqus  
offers practical  
examples on how

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nonlinear problems are solved, develop

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Abaqus models that will converge, identify modeling errors and recognize when a problem appears.

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Training ...**

Obtaining a Converged  
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Providing

understanding of how  
nonlinear problems are  
solved in Abaqus and  
to develop Abaqus

models that will  
converge. 3DPlay  
Simulation Experience  
Essentials. Course



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Objective. This course teaches you how to replay simulation experiences in 3DPlay leveraging lightweight results visualization.

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to: Understand how  
nonlinear problems are

solved in Abaqus

Develop Abaqus

models that will

converge Identify

modeling errors that

cause models to

experience

convergence

difficulties Recognize

when a problem is too

difficult or too ill -posed

to be solved

effectively.

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objectives. Upon

completion of this

course you will be able

to: Understand how

nonlinear problems are

solved in Abaqus

Develop Abaqus

models that will

converge Identify

modeling errors that

cause models to

experience

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convergence  
difficulties Recognize  
when a problem is too  
difficult or too ill -posed  
to be solved  
effectively.

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Training Course The perfect training to create better converging simulations with Abaqus Obtaining a converged solution with Abaqus Training Course

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So there is no need to set relaxation factors higher before obtaining a final converged

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solution. When using the pressure-based coupled solver, if you set the time-step (or correspondingly the Courant number) to be too high it may cause the residuals to hang and not converge, or in some cases may cause divergence.

### **Tips & Tricks: Convergence and Mesh Independence Study ...**

If the increment

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converges in fewer than 5 iterations, this indicates that the solution is being found fairly easily. Therefore, Abaqus/Standard automatically increases the increment size by 50% if 2 consecutive increments require fewer than 5 iterations to obtain a converged solution.

### **Solving nonlinear problems**

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Day 2 • Lecture 6

Convergence

Problems: Element

Behavior • Workshop 6

Element Selection •

Lecture 7 Convergence

Problems: Constraints  
and Loading • Lecture

8 Convergence

Problems: Materials •

Workshop 7 Limit Load

Analysis • Workshop 8

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Obtaining a Converged Solution with Abaqus.

What is it? This course is teaches you how non-linear problems are solved. We will learn you to develop models that will converge, and help you to identify modeling errors that cause models to

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experience  
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CONWIZ, the  
convergence wizard,  
greatly reduces the  
complexity of obtaining  
converged solutions.  
Both steady-state and  
transient (time-  
dependent) scenarios  
can be considered,  
enabling users to

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extend the range of conditions applied to their models.

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## **[EPUB] Obtaining A Converged Solution With Abaqus**

[WEBINAR] 28/05 -  
Obtaining a converged  
solution with Abaqus -

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Marko Vrh    . The webinar will focus on solving possible problems with the convergence of the numerical iterative scheme within the Abaqus / Standard program.

### **CADCAM Group - [WEBINAR] 28/05 - Obtaining a converged ...**

e) Try constraining different nodes to remove rigid body

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motion as both the nodes and constraints can have a large influence in obtaining a converged solution. As long as the constraint is properly applied to eliminate all rigid body rotation and translation modes, the final results will be very similar.

**When I attempt to do a springback analysis, I sometimes ...**

Hyper Converged

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with a cutting-edge  
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and optimizing  
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