Non Destructive Testing
Simulation and Methodology

CIVA News > November 2011

Hello,

Autumn leaves start falling but CIVA keeps on running. Kindly find below the news of Extende and its famous CIVA software.

Computed tomography has arrived in CIVA !

Based on its RT module, CIVA software has been recently extended to tomography, with the same objective.
In addition to RT inspection data, other input parameters specific to tomography such source to axis, source to detector distances and number of projections can be selected. Read more...

CIVA 10.1: Optimize your CIVA 10

This new release of the expertise platform for Non Destructive Testing simulation includes a lot of improvements and bugs fixing within the 3 existing modules UT, ET and RT.

About 100 bugs fixing have been performed within the 3 modules of CIVA. This upgrade will be distributed to CIVA users under maintenance during December and early January. Read more...

CIVA's validation

The validation of Civa code consists in evaluating the reliability/accuracy of its predictions by comparing these predictions to reference results. In general these are obtained by experiments on mock-ups (experimental validation), but they may also be obtained using other codes or models (model benchmarking, which will be called "numerical" validation here). Read more...

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CIVA story, interview of Dr. Steve Mahaut

Dr. Steve Mahaut, head of the Laboratory of Simulation and Modeling at CEA, accepted to receive us in his office, to talk about CIVA and his story related to this project.

How the CIVA project was born ?
The CIVA project started in 1992, aiming to replace the SPARTACUS software dedicated to the acquisition and processing of ultrasonic data. The CIVA project was

launched by Philippe Benoist, who was the head of the ultrasonic testing laboratory at CEA. Compared to SPARTACUS, CIVA had two complementary objectives: beyond analysis and data processing, CIVA would also integrate modeling codes, and would also provide imaging and simulation of other NDT techniques (Eddy Currents and radiography in particular). The first presentation of CIVA was held in Nice (France) in 1994. Read more...

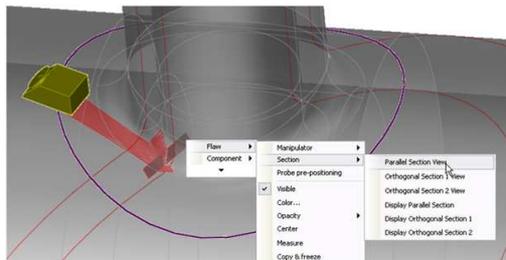## Training sessions: our 2012 catalog is now available

Since CIVA offers more and more solutions and new modules, we want the CIVA users' community to take advantage of this software and all capabilities.

By participating in training, you will be able to maximize the benefits of CIVA, know its limitations and get sufficient knowledge of the calculation models, and perform more efficient simulations. Read more...

If you wish to register or obtain more information, please do not hesitate to contact us at: civatraining@extende.com.

CIVA TIP: Use section views to ease flaw positioning

Inspection of complex components often leads to big challenges when it comes to position a flaw in a critical area of interest but working in a 3D visualization window.
For instance, you are inspecting a nozzle part and you would like to put the flaw at an oblique position regarding the nozzle connection, but exactly arising at the backwall of primary part! Well this is not easy and a simple 3D view can drive you crazy…Read more...

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