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welding using the  
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Simulation of

Welding, Element By

ElementMulti-pass

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By AWI (ABAQUS

Welding Interface)

weld 2 plate ( t-joint

connection) using

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welding using DFLUX

subroutine Abaqus

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welding on a pipe

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connection in Abaqus

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~~Analysis in~~

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DFLUX subroutine in

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composite structures

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between a pipe and a

plate ABAQUS

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### tutorial EP019 | How

#### to analysis residual

#### stress from weld joint

#### Dassault Syst

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Abaqus model to predict the residual stress in Welding (or additive manufacturing) process. Welding Simulation With Abaqus Dassault of Abaqus user subroutines DFLUX,

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GAPCON, and FILM.

The objective of the simulation is to predict post-weld deformation and residual stress

distribution. Key

Abaqus Features and Benefits Combined

thermal-mechanical analysis procedures, in sequentially coupled or fully coupled form

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Simulation With

transient heat

sources and weld

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capabilities of  
Abaqus/CAE for

efficient multi-pass  
welding simulation

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three-dimensional  
weld deposition

simulation An

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the welding process  
is not the subject of  
this paper, but ...

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model. By right-  
clicking on Models in  
the tree on the  
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weld model can be  
created. The Weld

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Model dialog box then opens (Figure 3). In this dialog box, the heat-transfer model and part are selected from drop-down lists. The unit system has to be selected as well.

Simulating welding using the Abaqus Welding Interface - Part 2

More on that in a

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called > Welding

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performed with

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While analysis  
capabilities for  
modelling welding  
processes have  
always been in  
Abaqus, the setup of

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weld models –  
especially the pre-  
processing –

remains a time-

consuming part of

the workflow. The

Abaqus Welding

Interface Plug-In

(AWI) enables an

easy, efficient, model-

tree based approach

to the setup all

aspects of 2D and 3D

welding models from

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Simulation With  
within Abaqus/CAE,  
such as weld beads,  
weld passes, film  
loads, and radiation  
loads etc.

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Welding Simulation  
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Abaqus ...  
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conduct a welding  
simulation. 2.3

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Modelling Methods  
using Abaqus . When  
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Modelling  
these are two  
distinct approaches  
that are available to  
users. The first of  
these is the  
construction of a 2D  
axisymmetric or shell  
FE model of the  
component in  
question.

Modelling and  
Analysis of Welding  
Processes in Abaqus

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Dissimilar Metals

using Abaqus

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carried out in

SIMULIA

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The simulation is

based on the

nonlinear coupled,

sequential thermal-

stress analysis. Weld

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weld deposition  
simulation.

Sequentially coupled  
thermal-stress  
analysis computes  
residual stresses and  
deformations after  
each weld pass.

Multi pass Pipe  
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### Simulation With

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