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## **Riser Analysis Using Abaqus**

Threaded and Coupled  
Connector Analysis  
Using Abaqus CAXA  
The data at point "O"  
and the static effective  
tension at the TDP are  
provided by a global  
riser analysis made in  
a FEM model, using  
Abaqus or Orcaflex, for  
example. The equation  
of motion that  
describes the problem  
is given by Eq. (5),

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where  $\rho$  is the

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submerged structures  
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the modeling of  
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UWAVE. For Airy and Stokes waves the fluid surface elevation and the fluid particle velocities and accelerations will be calculated as functions of time and location based on the wave definition.

## **Abaqus/Aqua analysis**

The analysis is done in two steps. The first is the static step, in which the top tension

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is applied and the riser is moved from the vertical to its offset position by specifying the necessary horizontal displacement at the top of the pipeline. The top tension is 2.224 MN ( $5 \times 10^5$  lb).

**Riser dynamics -  
Massachusetts  
Institute of  
Technology**

Riser analysis for a  
connected riser

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configuration was conducted to determine if the top tensioning capacity is sufficient to support a riser in 9000 ft (2743 m) of water based on representative design metocean conditions, using up to 16 ppg (1917 kg/m<sup>3</sup>) mud in a specific deepwater region. The riser stack-up as previously stated in the previous section was modeled using a typical riser...

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## **Riser Analysis - an overview | ScienceDirect Topics**

The data at point "O" and the static effective tension at the TDP are provided by a global riser analysis made in a FEM model, using Abaqus or Orcaflex, for example. The equation of motion that describes the problem is given by Eq. (5), where  $\rho$  is the mass per unit length,  $p$  is the



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submerged weight per unit length and  $H$  is the Heaviside function.

## **An analysis of parametric instability of risers**

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For riser vibration  
under the external  
forced motion, e.g.  
FLNG vessel sway  
motion, the basic  
dynamic equation for  
lateral motion,  $x$ , of the  
riser is (2.1)  $m \ddot{x} + c \dot{x} + kx = F_s(t) + F_h$

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( $t$ ) where  $m$ ,  $c$  and  $k$  are mass, structural damping and stiffness of the riser, respectively;  $x$ ,  $\dot{x}$  and  $\ddot{x}$  are lateral displacement, velocity and acceleration of the riser, respectively;  $F_s(t)$  is the force imposed on the top end of the riser due to the ship motion, and  $F_h(t)$  is the hydrodynamic ...

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