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The offshore industry lacks a complete understanding of lateral buckling, and efficient tools for simulating buckling behaviour early in the design phase would make a valuable contribution to our knowledge. The computer analysis tool, SIMLA, which has been developed by MARINTEK for Norsk Hydro, can accurately predict and simulate buckling effects.

Lateral Buckling Analysis of Offshore Pipelines Using ...

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Overview of Lateral Buckling and Upheaval Buckling of Pipelines. Long pipelines are often subjected to lateral and upheaval buckling. Both upheaval and lateral buckling can induce excessive bending stresses in the pipeline that may lead to pipeline failure. In January 2000, the 1.3 million liters of oil spill in Guanabara Bay, Brazil was initiated due to the lateral buckling phenomenon that caused the rupture of the offshore pipeline wall.

Overview of Lateral Buckling and Upheaval Buckling of ...

Lateral buckling analysis of offshore pipelines using SIMLA Offshore pipelines are required to operate at ever higher temperatures and pressures. The resulting high axial stress in the pipe-wall may lead to unexpected buckling, which may have serious consequences for the integrity of

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Unexpected lateral buckling has been observed in several operating pipeline systems. The offshore industry lacks a complete understanding of lateral buckling, and efficient tools for simulating buckling behaviour early in the design phase would make a valuable contribution

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Lateral Buckling Analysis of Offshore Pipelines Using ...

Lateral buckling analysis of on-bottom submarine pipelines is of particular interest in the offshore industry due to the complexities involved in the analysis, and the potential design efficiencies that can be unlocked.

Parametric solution of lateral buckling of submarine ...

Uncontrolled lateral buckling can cause excessive plastic deformation of the pipeline, which can lead to localized buckling collapse or cyclic fatigue failure during operation due to multiple heat-up and cool-down cycles, if it is not properly managed.

Assessment of Offshore Pipeline

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A design that incorporates controlled lateral buckling is an efficient solution to the problem of high compressive axial stresses. Lateral buckling does, however, give rise to relatively high tensile axial strains (possibly exceeding 0.4 percent) in the pipe wall, and, relatively high fatigue loading associated with movement of the buckle under start-up and shut-down cycles.

ECA's and Lateral Buckling | International Conference on ...

A pipeline's critical buckling is governed by the lateral friction factor, the pipeline unit submerged weight and the initial curvature of the initial lateral out-of-straightness. [Hobbs, 1984] performed some experimental work in an effort to study the problem of offshore pipeline buckling.

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Investigation into the Dynamic Effects of Lateral Buckling ...

Lateral buckling of pipelines due to high pressure and high temperature (HPHT) may occur if the pipeline is exposed on the seabed, and upheaval buckling may occur if it is buried or constrained in a trench. Uncontrolled global buckling can cause excessive plastic deformation of the pipeline, which could lead to localized buckling collapse or cyclic fatigue failure during operation, if it is not properly managed.

Lateral Buckling - an overview |

ScienceDirect Topics

Controlled lateral buckling is an efficient solution to the relief of axial compression. Indeed, as temperature and pressures increase further, lateral buckling may be the only economic solution. A...

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(PDF) Lateral buckling and pipeline walking, a challenge ...

□ It is imperative that the global buckling analysis (especially during the execution phase) is reflective of the offshore sequencing and operation and analyses shall be performed at each step of analysis as follows: □ Following pipelay and prior to pressurisation.

Global Buckling Design for Flexible Flowlines

Download Citation | Research on lateral buckling analysis of subsea pipeline | With the development of the offshore oil industry, submarine pipelines work at higher temperatures and subsea ...

Research on lateral buckling analysis of subsea pipeline

Using Monte Carlo simulation, this

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program performs a full structural reliability analysis of a pipeline undergoing lateral buckling. The lateral buckling behavior of the pipeline is simulated many times (typically 106 to 107 times) using different, randomly-selected values of the uncertain variables in each simulation.

Probabilistic approach can make deepwater ... - Offshore

The beam vertical mode of buckling and beam lateral mode of buckling of offshore pipelines were investigated. The pipeline was modeled as an elasto-plastic, infinitely long beam with localized imperfection. The seabed was modeled as a fluid-saturated, layered porous medium.

A Study on Buckling of Offshore Pipelines | Journal of ...

In Deepwater developments, the lateral

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buckling phenomenon is the dominant buckling mode. To extensive explore this phenomenon, detailed finite element analysis (FEA) should be performed to evaluate the distribution of temperature field, stress field and displacement field under massive up- or lateral buckling caused by thermal expansion.

A COMPARATIVE STUDY OF SUBSEA PIPELINES LATERAL BUCKLING ...

Analysis of the results, conclusions and recommendations for further work is presented in the final chapter. A lifting experiment was performed to detect and analyze the resistance provided by different soils. Upheaval buckling experiments were performed to detect a general behavior of a pipe in different upheaval buckling scenarios.

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UPHEAVAL BUCKLING OF BURIED PIPELINES

The accurate prediction of lateral buckling is crucial for offshore pipelines that are subjected to high temperature and internal pressure. As a challenging topic, modeling pipeline buckling involves geometric nonlinearity and complex pipe-soil interaction.

Finite-Element Modeling of Offshore Pipeline Lateral Buckling

Lateral buckling and walking A hot pipeline that is laid on the seabed will tend to expand. If this thermal expansion is restrained in some way, for example by the friction of the seabed, then an axial compressive force will develop in the pipeline. If this force is large enough, the pipeline may undergo column buckling.

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