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ABOUT KOMtech

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- **5** EDITORIAL NOTE

FEATURED ARTICLES

1 Jackup Going On Location Analysis

This paper presents a recent development of analysis methods applied to jackup units going on location.

2 Design Considerations of DOL And VFD Jacking System

The paper discusses the characteristics and peculiarities to be considered for both DOL and VFD Jacking systems.

3 The Impact of Refrigerant Selection and Precooling Condition on LNG Production Robustness and Efficiency

This papers describes the selection of precooling refrigerant is a tri-angular exercise where the physical properties has to fulfill the required precooling process condition. The energy efficiency, safety and environmental impact should also be taken into consideration to result in an efficient, robust and safe process, such as Keppel's PreNEx.

FEATURED HIGHLIGHT

4 Experimental Investigation on Flow Induced Motion of Tension Leg Platform

The paper discusses and presents a novel arrangement to represent the tendon stiffness in vertical and horizontal modes in a shallow current channel.

Effect of Drillship's Moonpool Shape on The Resistance by CFD and Ultra-Reduced Model Experiments

The paper presents the comparison between simulation of the CFD Models and experimentation results of the effects of a drillship's moonpool shape.

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6 Design and Installation of an Active Wave Absorber in a Wave Channel

The objective of the present work is to design and install a new active wave absorption system into fKN@LOC, Laboratory of Waves and Currents, at COPPE/UFRJ.

7 Portable Fuel Tank - The Application of a New Method of Bunkdeing for Small Scale Gas Fuelled Vesses!

This paper describes a new approach of LNG bunkering for gas fuelled tug by replacing the empty fuel tanks with preloaded fuel tanks which are transported by truck, ship or rail.

8 Innovative Fatigue Prediction Model for Improved Fatigue Performance of Welded Steel Connections in Offshore Wind Turbine Jackets

This paper describes the present day fatigue prediction method and outlook of an innovative model in which the present day method is potentially adapted to be sensitive to load sequence effects.

9 OWEC Pile Stopper Solutions

This paper explores the solutions in the portfolio of OWEC Tower towards increasing the operability and reliability of OWT jacket installation while lowering the associated costs.

10 Weight Monitoring System

This paper talks about a real-time system which displays the distribution of weight applied to legs of a Jack Up rig and helps in making rig's stability decisions.

Numerical Prediction of Wind Loads on Topside of Semi-submersible Platform

This paper presents CFD (computational fluid dynamics) validation and prediction of wind loads on complicated topside of a semi-submersible platform.

12 Review of Floating Offshore Structure Concepts for Exploration in the Arctic Region

This paper discuss the main challenges for the design of Arctic Floaters and the main principles applied in development of these designs. An overview of available design solutions is also provided.

13 Drillship DLA/SFA Notation Design Review

DLA/SFA notation is the first vessel to have that notation in keppel design & build history, this is the global strength and fatigue analysis for ship. This design review is to share the calculation Competence for ship design areas.