

Marine Operations Specialty Symposium

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About the Book

This valuable edition covers all offshore operation and installation related issues, which will be of interest to many segments of the offshore. It demonstrates the many noteworthy offshore facilities installed and completed in both shallow and deepwater fields worldwide. This book contains the selected papers after the review papers. The contributing authors are from key oil & gas companies, consultants, contractors, classification societies, universities and research institutes.

Topics Covered

Lessons Learnt and Codes

- Topsy Turvy Twelve Pile Launches
- Updated DNV Codes for Marine Operations

Transportation

- Heavy-Lift Transport Ships — Overview of Existing Fleet and Future Developments
- A New Approach to Designing and Approving Barge Tows

Hydrodynamics and Lifting Operations

- First and Second Order Wave Effects in Narrow Gaps Between Moored Vessels
- Hydrodynamic Coefficients of Porous Plates and Application to Subsea Deployment
- Simplified Method for Prediction of Hydrodynamic Forces on Subsea Structures Lifted Through Wave Zone
- Dynamic Amplification Factors in Lifting Operations for Installation of a Subsea Spool

Installation of Subsea Template

- Wet-Tow and Installation of Subsea Templates
- The Pencil Buoy System — Installation of Subsea Structures without Offshore Crane Vessel

Pipeline Installation

- Reducing the Cost of Offshore Pipelines
- Analysis of an Alternative Pipeline Installation Procedure that Combines Onshore Deflection and Offshore Transportation
- Design and Installation of Steel Transfer Lines for Deep Water Export Terminal Projects

General

- Ampelmann Demonstrator: Completion of a Motion Compensation Platform for Offshore Access and Review of Different Applications
- Response Based Motion Analysis Methods for a Turret Moored FPSO
- Weather Routing: Uncertainties and the Effect of Decision Support Systems
- Design and Construction Considerations for Compliant Towers Offshore Borneo
- Transport and Installation of Shah-Deniz TPG500 in the Caspian Sea

Simulation of Operations

- Simulation of 'Ormen Lange'
- Installation Operations
- Model Tests and Computer Simulations for Njord FPU Gas

Module Installation

- Anchor Handling Simulation
- Human Element in the Safety Modeling of Offshore Marine Operations

Floatover Operations

- Kikeh Spar Topside Floatover Installation — Operational Aspects
- Mating Analysis of the Truss and Hull Sections on the Truss
- Semisubmersible in Open Water
- Float-Over Technical Challenges
- Float-Over High Air Gap
- Floatover — Installation of Topsides
- Vessel Adapted for Deck Structure Installation and Removal:
- New Solution Assembly of a Monocolumn Hull by the Mating of Two Sections

Installation and Control of Moorings and Risers

- Installation of Deep Water Moorings
- Design and Installation of Steel Catenary Risers in Deep to Ultra Deep Water
- Deepwater Minimum Production Riser System, Design, Fabrication, Installation
- Parametric Evaluations of the Buoy Supporting Riser (BSR) Installation
- Switching Control for Thruster-Assisted Position Mooring
- Control of Marine Drilling Riser Angles by Position Mooring



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Readership: Researchers, Academics and Engineers. MOSS suits for the boom of shallow and deepwater operations and facility installation activities worldwide from universities, research institutes, third parties, and offshore industries.

