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Noncohesive Soils; 4. Axial Load-Displacement Response of Pipelines; 5. Lateral Load-Displacement Response of Pipelines; References; Chapter 7 - Hydrodynamics around Pipes; 1. Introduction; 2. Wave Theory; 3. Steady Currents; 4. Hydrodynamic Forces; References; Chapter 8 - Finite Element Analysis of In Situ Behavior; 1. Introduction; 2. Finite Element Modeling of the Pipeline System 3. Procedure and Load Steps in Finite Element Analysis 4. Element Types Used in the Model; 5. Nonlinearity and the Seabed Model; 6. Validation of the Finite Element Model; 7. Dynamic Buckling Analysis; 8. Cyclic In-Place Behavior During Shutdown Operations; References; Chapter 9 - Thermal Expansion Design; 1. Introduction; 2. Pipeline Strains; 3. Pipeline Stresses; 4. Effective Axial Force of the Pipeline; 5. Expansion of a Single-Pipe Pipeline; 6. Expansion of the Pipe-in-Pipe System; 7. Examples of Expansion Analysis; References; Chapter 10 - Lateral Buckling and Pipeline Walking 1. Introduction 2. Buckle Initiation; 3. Mitigation of Lateral Buckling; 4. Pipeline Walking; References; Chapter 11 - Upheaval Buckling; 1. Introduction; 2. Analytical Solution of Upheaval Buckling; 3. Finite Element Analysis of Upheaval Buckling; 4. Stabilization Against Upheaval Buckling; 5. Design Against Upheaval Buckling; References; Chapter 12 - Fatigue and Fracture; 1. Introduction; 2. Fatigue S-N Approach; 3. Fracture; 4. Recognized Industry Codes of ECA; References; Chapter 13 - On-Bottom Stability; 1. Introduction; 2. Vertical On-Bottom Stability; 3. Lateral On-Bottom Stability 4. Pipe-Soil Interaction

Sommario/riassunto

As deepwater wells are drilled to greater depths, pipeline engineers and designers are confronted with new problems such as water depth, weather conditions, ocean currents, equipment reliability, and well accessibility. Subsea Pipeline Design, Analysis and Installation is based on the authors' 30 years of experience in offshore. The authors provide rigorous coverage of the entire spectrum of subjects in the discipline, from pipe installation and routing selection and planning to design, construction, and installation of pipelines in some of the harshest underwater environments around th

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