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Calculation; 4.3.4 Hydrodynamic Stability Assessment; 4.4 Partially Buried Pipelines; References; Further Reading; 5 Pipeline Span; 5.1 Introduction; 5.2 Problem Description; 5.2.1 Free Span; 5.2.2 In-Line Oscillations; 5.2.3 Cross-Flow Oscillations; 5.2.4 Galloping; 5.3 Design Considerations; 5.3.1 Dynamic Stresses; 5.3.2 Vortex-Shedding Frequency; 5.3.3 Pipeline Natural Frequency; 5.3.4 Reduced Velocity; 5.3.5 Stability Parameter; 5.3.6 Critical Span Length
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7.9.1.3 Stub Piece Connection Clamp Design

Sommario/riassunto

The development of oil and gas fields offshore requires specialized pipeline equipment. The structures must be strong enough to with stand the harshest environments, and ensure that production is not interrupted and remains economically feasible. However, recent events in the Gulf of Mexico have placed a new importance on maintenance and reliability. This new section; Condition Based Maintenance (CBM), introduces the subject of maintenance to Offshore Pipelines: Design, Installation, Commissioning, 2nd Edition. Two of the main objectives of CBM is maximizing reliability while preven