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Structural Analysis; 6.1 Introduction; 6.2 Project Planning; 6.3 Use of Finite Element Analysis; 6.4 Design Loads and Load Application; 6.5 Structural Modeling; 6.6 References; Chapter 7. Limit-State Design of Offshore Structures; 7.1 Limit State Design; 7.2 Ultimate Limit State Design; 7.3 Fatigue Limit State Design; 7.4 References; Part II: Ultimate Strength
Chapter 8. Buckling/Collapse of Columns and Beam-Columns8.1 Buckling Behavior and Ultimate Strength of Columns; 8.2 Buckling Behavior and Ultimate Strength of Beam-Columns; 8.3 Plastic Design of Beam-Columns; 8.4 Examples; 8.5 References; Chapter 9. Buckling and Local Buckling of Tubular Members; 9.1 Introduction; 9.2 Experiments; 9.3 Theory of Analysis; 9.4 Calculation Results; 9.5 Conclusions; 9.6 Example; 9.7 References; Chapter 10. Ultimate Strength of Plates and Stiffened Plates; 10.1 Introduction; 10.2 Combined Loads; 10.3 Buckling Strength of Plates
10.4 Ultimate Strength of Un-Stiffened Plates10.5 Ultimate Strength of Stiffened Panels; 10.6 Gross Buckling of Stiffened Panels (Overall Grillage Buckling); 10.7 References; Chapter 11. Ultimate Strength of Cylindrical Shells; 11.1 Introduction; 11.2 Elastic Buckling of Unstiffened Cylindrical Shells; 11.3 Buckling of Ring Stiffened Shells; 11.4 Buckling of Stringer and Ring Stiffened Shells; 11.5 References; Chapter 12. A Theory of Nonlinear Finite Element Analysis; 12.1 General; 12.2 Elastic Beam-Column With Large Displacements; 12.3 The Plastic Node Method; 12.4 Transformation Matrix
12.5 Appendix A: Stress-Based Plasticity Constitutive Equations

Sommario/riassunto

This new reference describes the applications of modern structural engineering to marine structures. It will provide an invaluable resource to practicing marine and offshore engineers working in oil and gas as well as those studying marine structural design. The coverage of fatigue and fracture criteria forms a basis for limit-state design and re-assessment of existing structures and assists with determining material and inspection requirements. Describing applications of risk assessment to marine and offshore industries, this is a practical and useful book to help engineers conduct structural

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