

Risers

**It's Application on Oil and
Gas Exploration**

Third Edition

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J. Koto and A. Maimun

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Preface



This book introduces offshore risers for drilling and production which is divided into eight chapters. The first chapter discusses overview of riser used in offshore engineering. In the second chapter, offshore platforms such as fixed and floating structure are explained in detailed. The third chapter discusses on drilling risers including drilling equipment, design criteria and analysis and the fourth chapter discusses on production riser such as steel catenary, top tension riser, flexible and hybrid risers including riser design. The fifth chapter discusses on challenges of risers in the ultra-deep water. The chapter sixth comes up with design practiced of risers, chapter seventh discusses on global analysis of risers, the eighth chapter discusses on vortex induced vibration of risers and chapter nine and ten discusses on installation of risers and application of finite element on riser analysis.

Many pictures and illustrations are enclosed in this book to assist the readers' understandings. It should be noted that some pictures and contents are borrowed from other companies' websites and brochures which are quoted and listed in the references. This book mainly is designed for basic education on offshore risers engineering purposes only.

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Table of Contents

Preface	1
Acknowledgements	2
List of Tables	3
List of Figures	4
Table of Contents	8
1.0. Introduction to Riser	12
1.1. Overview.....	12
1.2. Types of Risers	13
1.3. Material of Risers.....	14
1.3.1 Metallic Pipe	15
1.3.2 Flexible Pipe	15
2.0. Offshore Platforms	16
2.1. General.....	16
2.2. Fixed Platforms.....	16
2.2.1. Steel Jacket Structure	16
2.2.2. Compliant Towers Structure	17
2.2.3. Jack-Up Structure.....	18
2.3. Floating Platforms.....	19
2.3.1. Semi-Submersible	19
2.3.2. FPSO.....	19
2.3.3. SPARS	20
2.3.4. Tension-Leg Platform	23
3.0. Drilling Riser	25
3.1. Introduction.....	25
3.1. Floating Drilling Equipment	26
3.1.1. Types of Drilling Risers	26
3.1.2. Components of Drilling Risers.....	28
3.1.3. Risers Connectors	29
3.1.2. Diverter and Motion-Compensating Equipment	31
3.1.4. Choke and Kill Lines and Drill String	32
3.2. Key Components of Subsea Production Systems.....	33
3.2.1. Subsea Wellhead Systems.....	33
3.2.2. BOP.....	34
3.2.3. Tree and Tubing Hanger System.....	35
3.3. Riser Design Criteria.....	35
3.3.1. Operability Limits	35
3.3.2. Component Capacities	36
3.4. Drilling Riser Analysis Model	37
3.4.1. Drilling Riser Stack-Up Model	37

3.4.2. Vessel Motion Data.....	38
3.4.3. Environmental Conditions	38
3.4.4. Cyclic p-y Curves for Soil	39
3.5. Drilling Riser Analysis Methodology	39
3.5.1. Running and Retrieve Analysis.....	41
3.5.2. Operability Analysis	42
3.5.3. Weak Point Analysis.....	43
3.5.4. Drift-Off Analysis	44
3.5.5. Vortex Induced Vibration	46
3.5.6. Wave Fatigue Analysis	47
3.5.7. Hang-Off Analysis	47
3.5.8. Dual Operation Interference Analysis.....	48
3.5.9. Contact Wear Analysis.....	49
3.5.10. Recoil Analysis	51
4.0. Production Riser	52
4.1. Introduction.....	52
4.2. Attached and Pull Tube Risers (PTRs)	53
4.3. Steel Catenary Risers (SCRs)	54
4.3.1. Steel Catenary Riser Design Analysis.....	57
4.3.2. Strength and Fatigue Analysis	57
4.3.3. Construction, Installation, and Hook-Up Considerations.....	58
4.3.4. Pipe-in-Pipe (PIP) System	60
4.3.5. End Line Riser Components	62
4.3.6. Weight Distributed SCR	66
4.3.7. Buoyancy Supported Riser (BSR)	67
4.3.8. Catenary Offset Buoyant Riser Assembly (COBRA)	67
4.4. Top Tensioned Riser (TTR) Systems.....	70
4.4.1. Top Tensioned Riser Configurations	71
4.4.2. Top Tensioned Riser Components	72
4.4.3. Design Phase Analysis	74
4.5. Flexible Risers	75
4.5.1. Flexible Riser Configuration.....	75
4.5.2. Flexible Pipe Cross Section	78
4.5.3. Flexible Riser Design Analysis.....	81
4.5.3. End Fitting and Annulus Venting Design	82
4.5.4. Integrity Management	83
4.6. Hybrid Risers	86
4.6.1. General Description	86
4.6.2. Sizing of Hybrid Risers.....	90
4.6.3. Sizing of Flexible Jumpers.....	91
4.6.4. Preliminary Analysis.....	91
4.6.5. Strength Analysis	92
4.6.6. Fatigue Analysis.....	92

4.6.7. Riser Hydrostatic Pressure Test	92
4.6.8. Free Standing Hybrid Riser (FSHR)	93
4.6.9. Hybrid Riser Tower (HRT)	95
4.6.10. Single Line Offset Riser (SLOR)	97
4.7. Riser Design	99
4.7.1. Diameter and Wall Thickness	99
4.7.2. Materials Selection	101
5.0. Ultra-Deep Water Riser Challenges	103
5.1. Global Offshore Production	103
3.5. Diameter Selection	104
5.2. Wall Thickness	104
5.2. Riser Weight	105
5.4. Dynamic Response	106
5.5. Platform Motion	106
5.6. Installation	106
5.2. Review on Deep Water Riser System	107
6.0. Design Practiced Methods of Risers	109
6.1. General	109
6.2. Design Principles	109
6.3. Design Loads	110
6.3.1 Functional Loads	110
6.3.2. Environmental Loads	111
6.3.3. Accidental Loads	112
6.3.4. Pressure Loads	113
6.4 Limit States Design	113
6.5 Riser Design Cycle	115
7.0. Global Analysis of Risers	118
7.1. Collapse	118
7.2. Ocean Waves	119
7.3. Ocean Current	122
7.4. Response Amplitude Operator (RAO)	123
7.5. Hydrodynamic Load Effect	123
7.6. Soil-Riser Interaction	125
7.7. Global Analysis	125
7.7.1. Static Analysis	125
7.7.2. Natural Frequency Analysis	128
7.7.3. Dynamic Analysis	129
7.7.4 Coupled-Uncoupled Analysis	129
7.8. Time Domain Fatigue Analysis	130
7.9. Analysis Method of a Vertical Tensioned Riser	133
7.10. Static Catenary Concept	135
8.0. Vortex-Induced Vibration of Risers	139
8.1. Theoretical Background	139

8.1.1. Fundamental Aspects of VIV	139
8.1.2. Analysis Method of Vortex-Induced Vibration.....	150
8.1.3. Reynolds-Averaged Navier-Stokes (RANS).....	150
8.2. Vortex-Induced Vibration Using CFD.....	150
8.2.1. Computational Fluid Dynamic (CFD).....	150
8.3. Vortex-Induced Vibration Analysis	155
8.3.1. Result of Grid Quality Evaluation.....	155
8.3.2. Validation of CFD Simulations.....	155
8.3.3. 2-D VIV Simulation.....	157
8.4.1. Fatigue of offshore structure due to VIV	160
8.4. Vortex-Induced Vibration Prevention.....	161
8.4.1. Vortex-Induced Vibration Suppression Devices.....	162
8.4.2. Changes to riser structural properties.....	168
9.0. Offshore Risers Installation.....	171
9.1. Ship Stability.....	171
9.1.1. Centre of Buoyancy (CB)	171
9.1.2. Centre of Gravity (CG)	173
9.1.3. Centre of Metacentric (CM).....	181
9.2. Intact Stability.....	181
9.3. Installation of Riser.....	182
9.3.1. Laying by Lay Vessel	183
9.3.2. Laying by Reel Ship.....	184
10.0. Application of Finite Element on Risers	186
10.1. Displacement.....	186
10.2. Oscillation Frequency	189
10.3. Motion of Riser	190
10.4. Added Mass of Cylinder	191
10.5. Example using FEMorRis Software.....	193
References	198
Exercises.....	204
Autobiographies	208

Autobiographies



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