



Introduction to Offshore Pipelines and Risers



2007

Jaeyoung Lee, P.E.

Pipelines And Risers

Erik Asp Hansen



Pipelines And Risers:

Subsea Pipelines and Risers Yong Bai, Qiang Bai, 2005-12-05 Updated edition of a best selling title Author brings 25 years experience to the work Addresses the key issues of economy and environment Marine pipelines for the transportation of oil and gas have become a safe and reliable way to exploit the valuable resources below the world's seas and oceans The design of these pipelines is a relatively new technology and continues to evolve in its quest to reduce costs and minimise the effect on the environment With over 25 years experience Professor Yong Bai has been able to assimilate the essence of the applied mechanics aspects of offshore pipeline system design in a form of value to students and designers alike It represents an excellent source of up to date practices and knowledge to help equip those who wish to be part of the exciting future of this industry

Pipelines and Risers Yong Bai, 2001 The preparation of this book was motivated by recent developments in research and engineering and new design codes It aims to educate more pipeline engineers and provide materials for on job training on the use of new design codes and guides

Deepwater Flexible Risers and Pipelines Yong Bai, 2021-02-03 The technology processes materials and theories surrounding pipeline construction application and troubleshooting are constantly changing and this new series Advances in Pipes and Pipelines has been created to meet the needs of engineers and scientists to keep them up to date and informed of all of these advances This second volume in the series focuses on flexible pipelines risers and umbilicals offering the engineer the most thorough coverage of the state of the art available The authors of this work have written numerous books and papers on these subjects and are some of the most influential authors on flexible pipes in the world contributing much of the literature on this subject to the industry This new volume is a presentation of some of the most cutting edge technological advances in technical publishing The first volume in this series published by Wiley Scrivener is Flexible Pipes available at www.wiley.com Laying the foundation for the series it is a groundbreaking work written by some of the world's foremost authorities on pipes and pipelines Continuing in this series the editors have compiled the second volume equally as groundbreaking expanding the scope to pipelines risers and umbilicals This is the most comprehensive and in depth series on pipelines covering not just the various materials and their aspects that make them different but every process that goes into their installation operation and design This is the future of pipelines and it is an important breakthrough A must have for the veteran engineer and student alike this volume is an important new advancement in the energy industry a strong link in the chain of the world's energy production

Subsea Pipelines and Risers Yong Bai, Qiang Bai, 2005-12-05 Marine pipelines for the transportation of oil and gas have become a safe and reliable part of the expanding infrastructure put in place for the development of the valuable resources below the world's seas and oceans The design of these pipelines is a relatively new technology and continues to evolve as the design of more cost effective pipelines becomes a priority and applications move into deeper waters and more hostile environments This updated edition of a best selling title provides the reader with a scope and depth of detail related to the design of offshore pipelines

and risers not seen before in a textbook format With over 25years experience Professor Yong Bai has been able to assimilate the essence of the applied mechanics aspects of offshore pipeline system design in a form of value to students and designers alike It represents an excellent source of up to date practices and knowledge to help equip those who wish to be part of the exciting future of this industry Pipelines and Risers Yong Bai,2001-02-07 Pipelines and Risers **Rules for Subsea Pipelines and Risers** Germanischer Lloyd Aktiengesellschaft,2004 **Subsea Pipeline Design, Analysis, and Installation** Qiang Bai,Yong Bai,2014-02-18 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 the world All inclusive this must have handbook covers the latest breakthroughs in subjects such as corrosion prevention pipeline inspection and welding while offering an easy to understand guide to new design codes currently followed in the United States United Kingdom Norway and other countries Gain expert coverage of international design codes Understand how to design pipelines and risers for today s deepwater oil and gas Master critical equipment such as subsea control systems and pressure piping **Recommended Practice : RP** Veritas Offshore Technology and Services,1988 **Rules for Classification and Construction** ,1995 Offshore Pipelines Boyun Guo,Shanhong Song Ph.D.,Ali Ghalambor,Tian Ran Lin PhD,Jacob Chacko,2005-04-25 Offshore Pipelines covers the full scope of pipeline development from pipeline designing installing and testing to operating It gathers the authors experiences gained through years of designing installing testing and operating submarine pipelines The aim is to provide engineers and management personnel a guideline to achieve cost effective management in their offshore and deepwater pipeline development and operations The book is organized into three parts Part I presents design practices used in developing submarine oil and gas pipelines and risers Contents of this part include selection of pipe size coating and insulation Part II provides guidelines for pipeline installations It focuses on controlling bending stresses and pipe stability during laying pipelines Part III deals with problems that occur during pipeline operations Topics covered include pipeline testing and commissioning flow assurance engineering and pigging operations This book is written primarily for new and experienced engineers and management personnel who work on oil and gas pipelines in offshore and deepwater It can also be used as a reference for college students of undergraduate and graduate levels in Ocean Engineering Mechanical Engineering and Petroleum Engineering Pipeline design engineers will learn how to design low cost pipelines allowing long term operability and safety Pipeline operation engineers and management personnel will learn how to operate their pipeline systems in a cost effective manner Deepwater pipelining is a new technology developed in the past ten years and growing quickly Series Paper Erik Asp Hansen,1986

Two-phase Flow in Pipelines and Risers Erik Asp Hansen, 1986 *Static and Dynamic Analysis of Marine Pipelines and Risers* J. M. Shanks, Cranfield Institute of Technology, 1985 *Flexible Pipes* Qiang Bai, Yong Bai, Weidong Ruan, 2017-04-19

Written by one of the most well respected teams of scientists in the area of pipelines this revolutionary approach offers the engineer working in the energy industry the theory analysis and practical applications for applying new materials and modeling to the design and effective use of flexible pipes Recent changes in the codes for building pipelines has led to a boom in the production of new materials that can be used in flexible pipes With the use of polymers steel and other new materials and variations on existing materials the construction and therefore the installation and operation of flexible pipes is changing and being improved upon all over the world The authors of this work have written numerous books and papers on these subjects and are some of the most influential authors on flexible pipes in the world contributing much of the literature on this subject to the industry This new volume is a presentation of some of the most cutting edge technological advances in technical publishing This is the most comprehensive and in depth book on this subject covering not just the various materials and their aspects that make them different but every process that goes into their installation operation and design The thirty six chapters divided up into four different parts have had not just the authors of this text but literally dozens of other engineers who are some of the world s leading scientists in this area contribute to the work This is the future of pipelines and it is an important breakthrough A must have for the veteran engineer and student alike this volume is an important new advancement in the energy industry a strong link in the chain of the world s energy production Subsea Engineering Handbook Yong Bai, Qiang Bai, 2018-11-15

The offshore industry continues to drive the oil and gas market into deeper drilling depths more advanced subsea systems and cross into multiple disciplines to further technology and equipment Engineers and managers have learned that in order to keep up with the evolving market they must have an all inclusive solution reference Subsea Engineering Handbook Second Edition remains the go to source for everything related to offshore oil and gas engineering Enhanced with new information spanning control systems equipment QRA electric tree structures and manifold designs this reference is still the one product engineers rely on to understand all components of subsea technology Packed with new chapters on subsea processing and boosting equipment as well as coverage on newer valves and actuators this handbook explains subsea challenges and discussions in a well organized manner for both new and veteran engineers to utilize throughout their careers Subsea Engineering Handbook Second Edition remains the critical road map to understand all subsea equipment and technology Gain access to the entire spectrum of subsea engineering including the very latest on equipment safety and flow assurance systems Sharpen your knowledge with new content coverage on subsea valves and actuators multiphase flow loop design tree and manifold design as well as subsea control Practice and learn with new real world test examples and case studies **Static and Dynamic Analysis of Marine Pipelines and Risers** , 1903 This thesis investigates two slender body problems namely the static and dynamic analysis of submarine

pipeline spans and the dynamic analysis of marine risers In view of structural and environmental similarities these problems are closely related and where possible common analysis procedures have been developed For the problem of pipe spanning attention is focused on the possibility of vortex induced vibration and the associated question of span assessment This situation arises when following the discovery of a span an assessment is required to determine if any remedial repair work required To assist in this assessment and also to provide a more fundamental understanding of span behaviour number of mathematical models are developed First linear beam column theory is used to determine the span natural frequencies and buckling load for a single span supported continuously on either side by an elastic foundation The effects of internal external pressures and product temperature are included and the results presented terms of two independent nondimensional parameters Next the effects of pipe soil friction and change in geometry are considered utilising a nonlinear Finite Element model Theories are developed for a nonlinear pipe element with axial bending coupling and a nonlinear nonconservative pipe soil friction element The effects of initial seabed geometry and finite amplitude vibration are included and it shown that span frequencies are sensitive to both end friction constraints and seabed geometry For marine riser dynamics an attempt is made to synthesise the best parts from the many and varied analysis methods developed to date into a simple but flexible design orientated program The riser is represented using a Finite Element model similar to that employed for the pipeline spans and a reduced set of equations obtained using a component mode synthesis method Several riser articulated column designs are considered and the results found to

Design, Construction, Operation and Maintenance of Offshore Hydrocarbon Pipelines and Risers (limit State Design). ,1999 **Dynamic Behavior of Pipelines for Marine Applications** Ioannis K.

Chatjigeorgiou,2023-03-18 The dynamic behavior of pipelines describes the time varying continuous response of these structures under extreme effects that are generated by the surrounding environment waves and sea currents and motions imposed by the host floating facility This book describes all known impacts that affect the behavior and operation of a pipeline conveying an inner flow for underwater applications Known Impacts are those phenomena that are considered important according to practice and experience Underwater pipelines are typical unique structures that are attached to unique floating facilities The design and utilization of underwater pipelines depend strongly on the installation site and the intended application s particulars It is possible that future technology demands will require us to cope with additional challenges that will be considered important for the design and operation of underwater pipelines leading inevitably to the enhancement of the known challenges *Geotechnical Analysis of Offshore Pipelines and Steel Catenary Risers* Matthew Steven Hodder,University of Western Australia. School of Civil and Resource Engineering,University of Western Australia. Faculty of Engineering, Computing and Mathematics,2009 As hydrocarbon developments move further offshore into deeper water the pipelines and risers used in the transportation of oil and gas form an increasingly significant component of the development infrastructure Offshore pipelines and risers must be designed to withstand exposure to a range of loading

conditions throughout their lifetime On bottom pipelines laid directly on the seabed must be shown to be stable and not become overstressed when subjected to environmental and operational loads Similarly risers which transport hydrocarbon products between deep water floating platforms and the seabed are subjected to various cyclic loadings and must be shown to not suffer from fatigue damage The interaction of the pipeline or riser with the seabed serves as boundary conditions in a structural analysis of the system Therefore an accurate representation of the geotechnical behaviour in a pipe soil interaction model is critical to the assessment of structural response This thesis investigates the interaction of cylindrical objects with soil and its application to the analysis and design of offshore pipelines and risers The behaviour observed during experimental investigations performed to assess the effect of various loading conditions on pipe soil interaction response is used to develop analytical models which are appropriate for use in an integrated soil structure interaction assessment of the pipe soil system The combined vertical lateral behaviour of on bottom pipelines is explored An interaction model is presented which is applicable to the prediction of pipeline response when subjected to combined vertical and lateral loading on a soft clay seabed in undrained conditions The effects of various vertical cyclic loading regimes on pipe soil interaction in soft clay are investigated experimentally Results from a suite of tests exploring a wide range of vertical cyclic loading conditions in the touchdown zone of a steel catenary riser are presented Pipe soil interaction stiffness is observed to vary widely according to operative seabed strength variation from initial in situ strength conditions Analytical frameworks are presented which describe the variability of operative undrained shear strength due to the effects of soil remoulding along with subsequent reconsolidation The overall behaviour of the lower section of a steel catenary riser is explored experimentally Details of an instrumented pipeline which was developed to investigate three dimensional riser seabed response are presented The apparatus and analysis methodology developed allows for comparison of behaviour observed during experiments performed using a short element of pipeline assuming two dimensional plane strain conditions and the validation of pipe soil interaction models developed from element tests This thesis progresses the understanding of geotechnical aspects of offshore pipeline and riser behaviour It advances the predictive capabilities of pipe soil interaction models enabling more accurate response assessment and efficient design

Surface Production Operations: Volume III: Facility Piping and Pipeline Systems

Maurice Stewart, 2015-10-15 Surface Production Operations Facility Piping and Pipeline Systems Volume III is a hands on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design construction and operation For over twenty years this now classic series has taken the guesswork out of the design selection specification installation operation testing and trouble shooting of surface production equipment The third volume presents readers with a hands on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design construction and operation Packed with charts tables and diagrams this authoritative book provides practicing engineer and senior field personnel with a quick but rigorous exposition of piping and pipeline theory fundamentals and

application Included is expert advice for determining phase states and their impact on the operating conditions of facility piping and pipeline systems determining pressure drop and wall thickness and optimizing line size for gas liquid and two phase lines Also included are a guide to applying international design codes and standards and guidance on how to select the appropriate ANSI API pressure temperature ratings for pipe flanges valves and fittings Covers new and existing piping systems including concepts for expansion supports manifolds pigging and insulation requirements Presents design principles for a pipeline pigging system Teaches how to detect monitor and control pipeline corrosion Reviews onshore and offshore safety and environmental practices Discusses how to evaluate mechanical integrity

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