

Subsea Pipeline Engineering

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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

dr c p ellinas advanced mechanics engineering ltd major advances have been achieved in recent years in subsea pipeline design and installation inspection maintenance and repair have also received much attention the development of marginal fields has brought with it special problems which have necessitated novel methods and solutions in the meanwhile interest in the development of deepwater fields continues with the development of new technology this conference has placed emphasis in addressing developments in pipeline technology under four main headings pipeline seabed interaction flexible pipelines pipeline design fabrication and installation deepwater applications advances in north sea technology over the last few years have been concerned mostly with marginal fields small diameter pipelines and new materials which are well covered in the first three topics economic development of marginal fields requires processing of oil and gas to take place not at the wellhead but at existing facilities usually some distance away hydrocarbons are thus often transported at high pressure and temperature in small diameter pipelines which need to be protected through trenching however such operational practice has brought to the fore a problem that in the past was of little concern namely upheaval buckling

introducing a new practical approach within the field of applied mechanics developed to solve beam strength and bending problems using classical beam theory and beam modeling this outstanding new volume offers the engineer scientist or student a revolutionary new approach to subsea pipeline design integrating use of the mathematica program into these models and designs the engineer can utilize this unique approach to build stronger more efficient and less costly subsea pipelines a very important phase of the world s energy infrastructure significant advances have been achieved in implementation of the applied beam theory in various engineering design technologies over the last few decades and the implementation of this theory also takes an important place within the practical area of re qualification and reassessment for onshore and offshore pipeline engineering a general strategy of applying beam theory into the design procedure of subsea pipelines has been developed and already incorporated into the iso guidelines for reliability based limit state design of pipelines this work is founded on these significant advances the intention of the book is to provide the theory research and practical applications that can be used for educational purposes by personnel working in offshore pipeline integrity and engineering students 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

edited by the society for underwater technology this text covers advances in subsea pipeline engineering and technology topics covered include changes in the industry high pressure high temperature design construction installation and operations and maintenance

papers presented at aspect 90 a conference organized by the society for underwater technology and held on may 30 31 1990 aberdeen scotland

aspect 94 is the most up to date and comprehensive assessment of the present and future of the pipeline systems industry it comprises papers from leading experts in all areas of pipeline engineering and technology as this book shows the last few years have seen

great strides forward in the field of subsea pipelines deepwater pipelines long distance pipelines and complex systems transporting hydrocarbons and fluids to and from marginal field subsea wellheads and templates are all being implemented without significant problems the pace of progress continues to accelerate in the subsea industry and the scope to make further improvements is constantly being explored operators consultants suppliers and contractors are all researching developing and testing new techniques and ideas

subsea repairs and inspection are costly for petroleum and pipeline engineers and proper training is needed to focus on ensuring system strength and integrity subsea pipeline integrity and risk management is the perfect companion for new engineers who need to be aware of the state of the art techniques this handbook offers a hands on problem solving approach to integrity management leak detection and reliability applications such as risk analysis wide ranging and easy to use the book is packed with data tables illustrations and calculations with a focus on pipeline corrosion flexible pipes and subsea repair reliability based models also provide a decision making tool for day to day use subsea pipeline integrity and risk management gives the engineer the power and knowledge to protect offshore pipeline investments safely and effectively includes material selection for linepipe especially selection of standard carbon steel linepipe covers assessment of various types of corrosion processes and definition of anti corrosion design against internal as well as external corrosion gives process and flow assurance for pipeline systems including pipeline integrity management

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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 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

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 worlds 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

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this book is about the various methods of installing rigid subsea submarine pipelines such as the common methods using s lay j lay and reel lay vessels other methods like the surface tow bottom pull and various other pipeline tow methods are also utilized it also addresses supplementary activities required as part of a pipeline installation program such as pipe manufacture and coating seabed intervention riser installation pipeline precommissioning and pipeline repairs this book was written for students and newcomers to the oil and gas industry who have little or no knowledge of pipeline construction unlike other technical books on pipelines this one does not address the detailed design of pipelines instead it provides an overview of construction methodologies for subsea pipelines as such this book will provide the readers with a different perspective by providing a practical and illustrative approach to explain and illustrate how subsea pipelines can be installed through various methods the author has used examples from some of his past projects where available he also highlighted the various aspects of the work and in some cases he has provided the lessons that he learned from his past experiences so that readers may learn from the author s experiences too

this book is a comprehensive guide to the classification design construction and maintenance of subsea pipeline systems it provides an in depth exploration of offshore pipeline architecture serviceability and the rigorous standards required for certification and verification the chapters cover critical topics such as risk evaluations for novel features survey and inspection regimes materials and welding specifications geotechnical and environmental conditions flow assurance analysis strength and stability criteria and special considerations for pipe in pipe designs readers will also discover detailed discussions on pipeline rectification intervention design routing installation procedures

testing protocols and maintenance strategies this book is an indispensable resource for anyone involved in the offshore oil and gas industry engineers architects and safety management professionals will find this book particularly valuable it serves as both a reference for academics and students in industrial design and engineering fields and as a textbook for marine architecture courses whether you are overseeing the design of new pipelines or ensuring the integrity of existing ones this guide offers the latest research and practical insights to help you navigate the complexities of subsea pipeline systems

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

subsea production systems overview of subsea engineering subsea field development

subsea distribution system flow assurance and system engineering subsea structure and equipment subsea umbilical risers and flowlines

taking a big picture approach piping and pipeline engineering design construction maintenance integrity and repair elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project the author explores the qualitative details calculations and techniques that are essential in supporting competent decisions he pairs coverage of real world practice with the underlying technical principles in materials design construction inspection testing and maintenance discover the seven essential principles that will help establish a balance between production cost safety and integrity of piping systems and pipelines the book includes coverage of codes and standards design analysis welding and inspection corrosion mechanisms fitness for service and failure analysis and an overview of valve selection and application it features the technical basis of piping and pipeline code design rules for normal operating conditions and occasional loads and addresses the fundamental principles of materials design fabrication testing and corrosion and their effect on system integrity

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

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