

Mechanics Of Offshore Pipelines Volume 1 Buckling And Collapse

Mechanics of Offshore Pipelines, Volume 2
Mechanics of Offshore Pipelines: Volume I
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Proceedings - Offshore Technology Conference
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buckle propagation is a problem unique to offshore pipelines in which the local collapse of a locally weakened section of the pipe initiates a collapse that propagates at high speed catastrophically flattening the line by kilometers the lowest pressure that can sustain the propagation of the collapse the propagation pressure is only a small fraction of the collapse pressure of the intact pipe the large difference between these two pressures requires that pipelines be designed on the collapse pressure and the extent of the potential catastrophic damage suffered is limited by the periodic introduction of buckle arrestors to the line volume 2 of the book series mechanics of offshore pipelines addresses the major aspects of buckle propagation including its initiation establishment of the propagation pressure and the dynamics of buckle propagation buckle propagation under tension in pipe in pipe pipeline systems and confined buckle propagation in tubulars such as grouted casing are examined in dedicated chapters three chapters deal with the performance of the most commonly used buckle arrestors under both quasi static and dynamic buckle propagation each of these problems is studied through experiments analyses and large scale numerical simulations the results are used to provide empirical design equations and design guidelines on how to mitigate the effects of buckle propagation buckle propagation and arrest approached from both fundamental and applied points of view provides data empirical design formulae and design guidelines teaches how to analyze buckle propagation and mitigate its effects through experiment and modeling based on the 40

year research and practice of the most eminent researcher in the subject

mechanics of offshore pipelines second edition volume one buckling and collapse gives engineers fundamental knowledge on principles surrounding the mechanical behavior of pipelines and long tubular structures in the oil and gas industry addressing common challenges pertaining to buckling and collapse under various offshore loads the authors go through each challenge experimentally with supporting and analyzing data to present the main limits encountered helpful to both the practicing engineer and the graduate level the combined effort of analysis supplemented with numerical modeling helps engineers design procedures and guidelines to reproduce the best solution or solve problems using a nonlinear finite element code custom formulations are also included to help users gain a deeper understanding of each challenge rounding out with helpful appendices including a glossary of terms this book continues to deliver critical research and data to engineers that need to design install and maintain efficient and safe offshore pipelines updated to include more practical aspects such as failure of corroded pipes under external pressure and response of bi material under bending delves into cost effective materials and installation techniques covers guidelines practicing methods and recommendations on maintenance and design recommended as the bible for offshore pipelines explains the full spectrum of classical challenges such as inelastic structural mechanics and the newest technological demands

offshore oil and gas production was conducted throughout the entire 20th century but the industry's modern importance and vibrancy did not start until the early 1970s when the north sea became a major producer since then the expansion of the offshore oil industry has been continuous and rapid pipelines and more generally long tubular structures are major oil and gas industry tools used in exploration drilling production and transmission installing and operating tubular structures in deep waters places unique demands on them technical challenges within the field have spawned significant research and development efforts in a broad range of areas volume i addresses problems of buckling and collapse of long inelastic cylinders under various loads encountered in the offshore arena several of the solutions are also directly applicable to land pipelines the approach of mechanics of offshore pipelines is problem oriented the background of each problem and scenario are first outlined and each discussion finishes with design recommendations new and classical problems addressed investigated through a combination of experiments and analysis each chapter deals with a specific mechanical problem that is analyzed independently the fundamental nature of the problems makes them also applicable to other fields including tubular components in nuclear reactors and power plants aerospace structures automotive and civil engineering structures naval vehicles and structures

pipeline rules of thumb handbook a manual of quick accurate solutions to everyday pipeline engineering problems ninth edition the latest release in the series serves as the go to source for all pipeline engineering answers updated with new data graphs and chapters devoted to economics and the environment this new edition delivers on new topics including emissions decommissioning cost curves and more while still maintaining the quick answer standard display of content and data that engineers have utilized throughout their careers glossaries are added per chapter for better learning tactics along with additional storage tank and lng fundamentals this book continues to

be the high quality classic reference to help pipeline engineers solve their day to day problems contains new chapters that highlight costs safety and environmental topics including discussions on emissions helps readers learn terminology with updated glossaries in every chapter includes renovated graphs and data tables throughout

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 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

arctic offshore pipelining is feasible in the area shoreward of the transition zone the major obstacle detected is the very high expected cost which could significantly effect economic viability of an offshore discovery in order to investigate in detail the several technical problem areas that impact cost shell proposed and industry accepted the program whose findings are summarized in this report to assist in construction planning and study of the sensitivity of the many variables in any operation a construction simulation program was developed the questions of ice and permafrost were addressed in two categories protecting the pipeline from sea ice and protecting the pipeline from thaw unstable permafrost when site or area specific information was necessary for example problems alaskan beaufort sea data were used in addition to the construction simulation program the other specific topics studied in the program are listed below by category volume i contains under the heading protecting the pipeline from sea ice 6 papers method of selecting design gouge depth pipeline redundancy loads from gouging ice and grounded ice thermal expansion buckling arctic offshore pipeline trenching methods and sediment dispersal during trenching volume ii no 1 contains simpl computer program user s guide and simpl computer program system manual volume ii no 2 contains source listing simpl program volume iii under the heading of protecting the pipeline from thaw unstable permafrost includes 5 papers shore approach design and cost effect of berm on coastal sediment transport thawing and subsidence of offshore permafrost structural behavior of a subsiding pipeline and feasibility of ice bonded permafrost detection methods astis database

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