

A review of Pipeline Defect Assessment Manual (PDAM) project

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Abstract: The Pipeline Defect Assessment Manual (PDAM) project is a joint industry project sponsored by fifteen international oil and gas companies, to produce a document specifying the best methods for assessing defects in pipelines. PDAM document is the best available techniques currently available for the assessment of pipeline defects (such as corrosion, dents, gouges, weld defects, etc.) in a simple and easy-to-use manual, and gives guidance in their use. In this paper the best practices for the assessment of corrosion in pipelines are presented.

1. INTRODUCTION

Due to a combination of good design, materials and operating practices, oil and gas transmission pipelines have a good safety record; however, like any engineering structure, pipelines do occasionally fail. The most common causes of damage and failures in onshore and offshore, oil and gas transmission pipelines in Western Europe and North America are formats for your particular conference. External interference (mechanical damage) and corrosion [1-3]. Assessment methods are needed to determine the severity of such defects when they are detected in pipelines. Defects occurring during the fabrication of a pipeline are usually assessed against recognised and proven quality control (workmanship) limits. However, a pipeline will invariably contain larger defects during its life, and these will require a 'fitness-for-purpose' assessment to determine whether or not to repair the pipeline. Consequently, the past 40 years has seen the development of a number of methods for assessing the significance of defects. Some of these methods have been incorporated into industry guidance, others are to be found in the published literature. However, there is no definitive guidance that contains Safety must always be the prime consideration in any fitness-for-purpose assessment and it is always necessary to appreciate the consequences of a failure. These will influence the necessary safety margin to be applied to the calculations

2 THE PIPELINE DEFECT ASSESSMENT MANUAL

PDAM is based upon a comprehensive, critical and authoritative review of available pipeline defect assessment methods. This critical review includes a compilation of published full scale test data used in the development and validation of existing defect assessment methods. The full-scale test data is used to assess the inherent accuracy of the defect assessment methods, and to identify the 'best' methods (considering relevance, accuracy and ease of use) and their range of applicability. PDAM describes the 'best' method for assessing a particular type of defect, defines the necessary input data, gives the limitations of the method, and defines an appropriate factor to account for the model uncertainty. The model uncertainty for each assessment method has been derived from a statistical comparison of the predictions of the method with the inches in width.

PDAM does not present new defect assessment methods; it presents the current state of the art in the fitness-for-purpose assessment of defective pipelines. Limitations of the methods recommended in PDAM represent limitations of the available methods and of knowledge.



Fig 1: Corrosion in Pipelines

Pipeline Defect Assessment Manual

CO Houle



Pipeline Defect Assessment Manual:

Defect Assessment for Integrity Management of Pipelines Y. Frank Cheng, 2024-01-31 DEFECT ASSESSMENT FOR INTEGRITY MANAGEMENT OF PIPELINES Make energy pipelines safer by improved defect assessment for integrity management Pipelines provide an effective and efficient mode for transportation of energies including both conventional fossil fuels and renewable energies and fuels such as hydrogen biofuels and carbon dioxide over wide ranges and long distances meeting economic development and civilian needs While the integrity and safety of in service pipelines is paramount to pipeline operators there are many factors which can adversely affect the pipeline integrity and potentially result in pipeline failures and sometimes serious consequences Defect Assessment for Integrity Management of Pipelines provides a thorough and detailed overview of various techniques that can be used to assess corrosion defects the most common defects on pipelines and other mechanical defects such as dents buckles and wrinkles all of which constitute essential threats to pipeline integrity In addition to widely used standards and codes for defect assessment readers can obtain the latest progress in development of advanced techniques for improved accuracy in defect assessment From early stage Level I methods to the newest Level III method integrating with the mechano electrochemical interaction Defect Assessment for Integrity Management of Pipelines has everything you need to improve safety of your pipelines Defect Assessment for Integrity Management of Pipelines readers will also find Evolution of defect assessment techniques and limitations to be overcome with improved techniques Detailed analysis of defect assessment for determination of fitness for service of the pipelines and prediction of their failure pressures Both theoretical and practical aspects of the defect assessment methods applied on pipelines Defect Assessment for Integrity Management of Pipelines is ideal for pipeline professionals researchers and graduate students to improve personal knowledge research expertise and technical skills

Handbook of Pipeline Engineering ABCM - Brazilian Society of Mechanical Sciences and Engineering, José Luiz de França Freire, Marcelo Rosa Rennó Gomes, Marcelino Guedes Gomes, 2024-07-25 This Handbook covers a large number of Pipeline Engineering topics ranging from the initial stages of designing constructing operating and managing the integrity of a pipeline to several of their fluid transportation applications such as oil gas derivatives slurry hydrogen and CO₂ Traditional onshore and offshore pipelines are covered as well as chapters on present and future interaction with modern society This Handbook serves as a first reference resource for new readers entering the field but also as a complement to those who are aware of the general principles encompassing areas of pipeline engineering This Handbook has been developed in close cooperation with ABCM the Brazilian Society of Mechanical Sciences and Engineering Piping and Pipelines Assessment Guide Keith Escoe, 2006-04-10 Whether it is called fixed equipment at ExxonMobil stationary equipment at Shell or static equipment in Europe this type of equipment is the bread and butter of any process plant Used in the petrochemical industry pharmaceutical industry food processing industry paper industry and the manufacturing process industries stationary

equipment must be kept operational and reliable for companies to maintain production and for employees to be safe from accidents This series the most comprehensive of its kind uses real life examples and time tested rules of thumb to guide the mechanical engineer through issues of reliability and fitness for service This volume on piping and pipeline assessment is the only handbook that the mechanical or pipeline engineer needs to assess pipes and pipelines for reliability and fitness for service Provides essential insight to make informed decisions on when to run alter repair monitor or replace equipment How to perform these type of assessments and calculations on pipelines is a hot issue in the petrochemical industry at this time There is very little information on the market right now for pipers and pipeliners with regard to pipe and pipeline fitness for service

Pipeline Rules of Thumb Handbook M.J. Kaiser,E.W. McAllister,2022-09-02 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

Degradation Assessment and Failure Prevention of Pipeline Systems Gabriella Bolzon,Giovanna Gabetta,Hryhoriy Nykyforchyn,2020-09-10 This book presents the results of the research project G5055 Development of novel methods for the prevention of pipeline failures with security implications carried out in the framework of the NATO Science for Peace and Security program and explores the lifecycle assessment of gas infrastructures Throughout their service lives pipelines transporting hydrocarbons are exposed to demanding working conditions and aggressive media In long term service material aging increases the risk of damage and failure which can be accompanied by significant economic losses and severe environmental consequences This book presents a selection of complementary contributions written by experts operating in the wider fields of pipeline integrity taken together they offer a comprehensive portrait of the latest developments in this technological area

Comprehensive Structural Integrity Ian Milne,R. O. Ritchie,B.L. Karihaloo,2003-07-25 The aim of this major reference work is to provide a first point of entry to the literature for the researchers in any field relating to structural integrity in the form of a definitive research reference tool which links the various sub disciplines that comprise the whole of structural integrity Special emphasis will be given to the interaction between mechanics and materials and structural integrity applications Because of the interdisciplinary and applied nature of the work it will be of interest to mechanical engineers and materials scientists from both academic and industrial

backgrounds including bioengineering interface engineering and nanotechnology The scope of this work encompasses but is not restricted to fracture mechanics fatigue creep materials dynamics environmental degradation numerical methods failure mechanisms and damage mechanics interfacial fracture and nano technology structural analysis surface behaviour and heart valves The structures under consideration include pressure vessels and piping off shore structures gas installations and pipelines chemical plants aircraft railways bridges plates and shells electronic circuits interfaces nanotechnology artificial organs biomaterial prostheses cast structures mining and more Case studies will form an integral part of the work

Electromagnetic Nondestructive Evaluation (XIX) Tetsuya Uchimoto,Hiroaki Kikuchi,2016-06-15 There have been many developments in the field of electromagnetic nondestructive evaluation in recent years and it has become an increasingly valuable tool in many areas of industry engineering and construction This book presents selected papers from the 20th International workshop on Electromagnetic Nondestructive Evaluation ENDE held in Sendai Japan in September 2015 ENDE workshops aim to provide an international forum for discussion on the state of the art and perspectives in the field of electromagnetic nondestructive methods from the point of view of science and technology as well as their applications in industry and engineering which have contributed to the development of nondestructive testing and evaluation techniques using electromagnetic fields The book will be of interest to all those whose work involves the use or development of electromagnetic nondestructive evaluation techniques in whatever field *Oil and Gas Pipelines* R. Winston Revie,2025-03-18 Discover the integrity safety and security of new and aging oil and gas pipelines in this comprehensive reference guide Oil and gas pipelines are typically used to transport oil and gas but can be adapted to transport ethanol carbon dioxide hydrogen and more A pipeline network is an efficient method for transporting any number of energy providing products but safety and integrity are critical aspects of pipeline integrity management The demand for pipeline safety and security is increasing in the face of more stringent standards and deepening environmental concerns including those related to climate change *Oil and Gas Pipelines Integrity Safety and Security Handbook* provides a comprehensive introduction to the integrity of new and aging pipelines and their management repair and maintenance All major varieties of pipeline are included along with all pertinent public safety and environmental protections Now fully updated to reflect the latest research and technological developments the book is a critical contribution to the reliability and safety of the global energy grid and ongoing efforts at carbon capture utilization and storage Readers of the second edition of *Oil and Gas Pipelines* will also find 26 new chapters including a new section on the digitalization of pipelines Detailed discussion of topics including management of geohazards mechanical damage internal corrosion monitoring and many more Extensive case histories with practical accompanying solutions *Oil and Gas Pipelines* is ideal for engineers scientists technologists environmentalists students and others who need to understand the basics of pipeline technology as it pertains to energy deliverability environmental protection public safety and the important role of pipelines and pipeline security to ensure

energy security during the energy transition **Underground Pipeline Corrosion** Mark Orazem, 2014-02-17 Underground pipelines transporting liquid petroleum products and natural gas are critical components of civil infrastructure making corrosion prevention an essential part of asset protection strategy Underground Pipeline Corrosion provides a basic understanding of the problems associated with corrosion detection and mitigation and of the state of the art in corrosion prevention The topics covered in part one include basic principles for corrosion in underground pipelines AC induced corrosion of underground pipelines significance of corrosion in onshore oil and gas pipelines numerical simulations for cathodic protection of pipelines and use of corrosion inhibitors in managing corrosion in underground pipelines The methods described in part two for detecting corrosion in underground pipelines include magnetic flux leakage close interval potential surveys CIS CIPS Pearson surveys in line inspection and use of both electrochemical and optical probes While the emphasis is on pipelines transporting fossil fuels the concepts apply as well to metallic pipes for delivery of water and other liquids Underground Pipeline Corrosion is a comprehensive resource for corrosion materials chemical petroleum and civil engineers constructing or managing both onshore and offshore pipeline assets professionals in steel and coating companies and academic researchers and professors with an interest in corrosion and pipeline engineering Reviews the causes and considers the detection and prevention of corrosion to underground pipes Addresses a lack of current readily available information on the subject Case studies demonstrate how corrosion is managed in the underground pipeline industry

ICPER 2020 Faiz Ahmad, Hussain H. Al-Kayiem, William Pao King Soon, 2022-10-03 This book contains papers presented in the 7th International Conference on Production Energy and Reliability ICPER 2020 under the banner of World Engineering Science Technology Congress ESTCON2020 held from 14th to 16th July 2020 at Borneo Convention Centre Kuching Malaysia The conference contains papers presented by academics and industrial practitioners showcasing their latest advancements and findings in mechanical engineering areas with an emphasis on sustainability and the Industrial Revolution 4.0 The papers are categorized under the following tracks and topics of research IoT Reliability and Simulation Advanced Materials Corrosion and Autonomous Production Efficient Energy Systems and Thermofluids Production Manufacturing and Automotive **Reliability and Maintainability of In-Service Pipelines** Mojtaba Mahmoodian, 2018-06-13 Reliability and Maintainability of In Service Pipelines helps engineers understand the best structural analysis methods and more accurately predict the life of their pipeline assets Expanded to cover real case studies from oil and gas sewer and water pipes this reference also explains inline inspection and how the practice influences reliability analysis along with various reliability models beyond the well known Monte Carlo method Encompassing both numerical and analytical methods in structural reliability analysis this book gives engineers a stronger point of reference covering both pipeline maintenance and monitoring techniques in a single resource Provides tactics on cost effective pipeline integrity management decisions and strategy for a variety of different pipes Presents readers with rational tools for strengthening and rehabing existing pipelines

Teaches how to optimize materials selection and design parameters for designing future pipelines with a longer service life

Proceedings of the ... International Pipeline Conference, 2007 *Mechanical Behavior of High-Strength Low-Alloy Steels* Ricardo Branco, Filippo Berto, 2018-10-12 This book is a printed edition of the Special Issue Mechanical Behavior of High Strength Low Alloy Steels that was published in Metals

Ships and Offshore Structures XIX Carlos Guedes Soares, Y. Garbatov, 2015-09-03 This three volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais Portugal on 7th to 10th September 2015 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of

Sensor Technologies for Civil Infrastructures Jerome P. Lynch, Hoon Sohn, Ming L. Wang, 2022-07-19 Sensor Technologies for Civil Infrastructure Volume 2 Applications in Structural Health Monitoring Second Edition provides an overview of sensor applications and a new section on future and emerging technologies Part one is made up of case studies in assessing and monitoring specific structures such as bridges towers buildings dams tunnels pipelines and roads The new edition also includes sensing solutions for assessing and monitoring of naval systems Part two reviews emerging technologies for sensing and data analysis including diagnostic solutions for assessing and monitoring sensors unmanned aerial systems and UAV application in post hazard event reconnaissance and site assessment Includes case studies in assessing structures such as bridges buildings super tall towers dams tunnels wind turbines railroad tracks nuclear power plants offshore structures naval systems levees and pipelines Reviews future and emerging technologies and techniques including unmanned aerial systems LIDAR and ultrasonic and infrared sensing Describes latest emerging techniques in data analysis such as diagnostic solutions for assessing and monitoring sensors and big data analysis

Piping Engineering Karan Sotoodeh, 2022-10-11 Eliminate or reduce unwanted emissions with the piping engineering techniques and strategies contained in this book Piping Engineering Preventing Fugitive Emission in the Oil and Gas Industry is a practical and comprehensive examination of strategies for the reduction or avoidance of fugitive emissions in the oil and gas industry The book covers key considerations and calculations for piping and fitting design and selection maintenance and troubleshooting to eliminate or reduce emissions as well as the various components that can allow for or cause them including piping flange joints The author explores leak detection and repair LDAR a key technique for managing fugitive emissions He also discusses piping stresses like principal displacement sustained occasional and reaction loads and how to calculate these loads and acceptable limits Various devices to tighten the bolts for flanges are described as are essential flange fabrications and installation tolerances The book also includes Various methods and calculations for corrosion rate calculation flange leakage analysis and different piping load measurements Industry case studies that include calculations codes and references Focuses on critical areas related to piping engineering to prevent emission including material and corrosion stress analysis flange joints and weld joints Coverage of piping material selection for offshore oil and gas and

onshore refineries and petrochemical plants Ideal for professionals in the oil and gas industry and mechanical and piping engineers Piping Engineering Preventing Fugitive Emission in the Oil and Gas Industry is also a must read resource for environmental engineers in the public and private sectors

Advancement of Optical Methods and Fracture and Fatigue, Volume 3 Cosme Furlong, Chi-Hung Hwang, Gordon Shaw, Ryan Berke, 2025-08-07 Advancement of Optical Methods and Fracture and Fatigue Volume 3 of the Proceedings of the 2023 SEM Annual Conference Exposition on Experimental and Applied Mechanics the third volume of five from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers in the following general technical research areas Extreme Environments Interfacial Fracture Integration of Models Experiments Mechanics of Energy Energetic Materials Integration of Models Experiments In Situ Techniques for Fatigue Fracture Microscale Microstructural Effects on Mechanical Behavior Characterization Across Length Scales Extreme Conditions Environmental Effects Damage Fatigue and Fracture Structure Function and Performance *Advancements in Optical Methods & Digital Image Correlation in Experimental Mechanics, Volume 3* Ming-Tzer Lin, Cesar Sciammarella, Horacio D. Espinosa, Cosme Furlong, 2025-08-07 Advancement of Optical Methods Digital Image Correlation in Experimental Mechanics Volume 3 of the Proceedings of the 2019 SEM Annual Conference Exposition on Experimental and Applied Mechanics the third volume of six from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on a wide range of optical methods ranging from traditional photoelasticity and interferometry to more recent DIC and DVC techniques and includes papers in the following general technical research areas DIC Methods Its Applications Photoelasticity and Interferometry Applications Micro Optics and Microscopic Systems Multiscale and New Developments in Optical Methods DIC and its Applications for Inverse Problems

Issues on Risk Analysis for Critical Infrastructure Protection Vittorio Rosato, Antonio Di Pietro, 2021-07-07 Critical infrastructure provides essential services to citizens The mutual dependencies of services between systems form a complex system of systems with a large perturbation surface prone to be damaged by natural and anthropic events Their intrinsic and extrinsic vulnerabilities could be overcome by providing them adaptive properties to allow fast and effective recovery from loss of functionality Resilience is thus the key issue and its enhancement at the systemic level is a priority goal to be achieved This volume reviews recent insights into the different domains resilience enhancing strategies impact and threats knowledge and dependency related issues and proposes new strategies for better critical infrastructure protection

Monotonic and Ultra-Low-Cycle Fatigue Behaviour of Pipeline Steels António Augusto Fernandes, Abílio M.P. de Jesus, Renato Natal Jorge, 2018-06-15 This book covers the development of innovative computational methodologies for the simulation of steel material fracture under both monotonic and ultra low cycle fatigue The main aspects are summarised as follows i Database of small and full scale testing data covering the X52

X60 X65 X70 and X80 piping steel grades Monotonic and ULCF tests of pipe components were performed buckled and dented pipes elbows and straight pipes ii New constitutive models for both monotonic and ULCF loading are proposed Besides the Barcelona model alternative approaches are presented such as the combined Bai Wierzbicki Ohata Toyoda model iii Developed constitutive models are calibrated and validated using experimentally derived testing data Guidelines for damage simulation are included The book could be seen as a comprehensive repository of experimental results and numerical modeling on advanced methods dealing with Ultra Low Cycle Fatigue of Pipelines when subjected to high strain loading conditions

Adopting the Melody of Appearance: An Psychological Symphony within **Pipeline Defect Assessment Manual**

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