

Pipeline Risk Management Manual

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Water Management Challenges in Global Change

Bow Ties in Risk Management
CCPS (Center for Chemical Process Safety) 2018-10-09
AN AUTHORITATIVE GUIDE THAT EXPLAINS THE EFFECTIVENESS AND IMPLEMENTATION OF BOW TIE ANALYSIS, A QUALITATIVE RISK ASSESSMENT AND BARRIER MANAGEMENT METHODOLOGY
From a collaborative effort of the Center for Chemical Process Safety (CCPS) and the Energy Institute (EI) comes an invaluable book that puts the focus on a specific qualitative risk management methodology - bow tie barrier analysis. The book contains practical advice for conducting an effective bow tie analysis and offers guidance for creating bow tie diagrams for process safety and risk management. Bow Ties in Risk Management clearly shows how bow tie analysis and diagrams fit into an overall process safety and risk management framework. Implementing the methods outlined in this book will improve the quality of bow tie analysis and bow tie diagrams across an organization and the industry. This important guide: Explains the proven concept of bow tie barrier analysis for the preventing and mitigation of incident pathways, especially related to major accidents Shows how to avoid common pitfalls and is filled with real-world examples Explains the practical application of the bow tie method throughout an organization Reveals how to treat human and organizational factors in a sound and practical manner Includes additional material available online
Although this book is written primarily for anyone involved with or responsible for managing process safety risks, this book is applicable to anyone using bow tie risk management practices in other safety and environmental or Enterprise Risk Management applications. It is designed for a wide audience, from beginners with little to no background in barrier management, to experienced professionals who may already be familiar with bow ties, their elements, the methodology, and their relation to risk management. The missions of both the CCPS and EI include developing and disseminating knowledge, skills, and good practices to protect people, property and the environment by bringing the best knowledge and practices to industry, academia, governments and the public around the world through collective wisdom, tools, training and expertise. The CCPS has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 30 years. The EI’s Technical Work Program addresses the depth and breadth of the energy sector, from fuels and fuels distribution to health and safety, sustainability and the environment. The EI program provides cost-effective, value-adding knowledge on key current and future international issues affecting those in the energy sector.

Water Management Challenges in Global Change
B. Ulanicki 2020-11-25
Water Management Challenges in Global Change contains the proceedings of the 9th Computing and Control for the Water Industry (CCWI2007) and the Sustainable Urban Water Management (SUWM2007) conferences. The rationale behind these conferences is to improve the management of urban water systems through the development of computerbased methods. Issues such as economic globalisation, climate changes and water shortages call for a new approach to water systems management, which addresses the relevant technical, social and economic aspects. This collection represents the views of academic and industrial experts from a number of countries, who provide technical solutions to current water management problems and present a vision for addressing the global questions. The themes underlying many of the contributions include energy and material savings, water savings and the integration of different aspects of water management. The papers are grouped into three themes covering water distribution systems, sustainable urban water management and modelling of wastewater treatment plants. The water distribution topics cover asset and information management, planning, monitoring and control, hydraulic modelling of steady state and transients, water quality and treatment, demand and leakage management, optimisation, design and decision support systems, as well as reliability and security of water distribution systems. The sustainable urban water management topics include urban drainage systems, water reuse, social aspects of water management and also selected facets of water resources and irrigation. Computer control of wastewater treatment plants has been seen as less advanced than that of clean water systems. To address this imbalance, this book presents a number of modelling techniques developed specifically for these plants. Water Management Challenges in Global Change will prove to be invaluable to water and environmental engineering researchers and academics; managers, engineers and planners; and postgraduate students.

Root Cause Analysis Handbook
ABS Consulting 2014-10-01
Are you trying to improve performance, but find that the same problems keep getting in the way? Safety, health, environmental quality, reliability, production, and security are at stake. You need the long-term planning that will keep the same issues from recurring. Root Cause Analysis Handbook: A Guide to Effective Incident Investigation is a powerful tool that gives you a detailed step-by-step process for learning from experience. Reach for this handbook any time you need field-tested advice for investigating, categorizing, reporting and trending, and ultimately eliminating the root causes of incidents. It includes step-by-step instructions, checklists, and forms for performing an analysis and enables users to effectively incorporate the methodology and apply it to a variety of situations. Using the structured techniques in the Root Cause Analysis Handbook, you will: Understand why root causes are important. Identify and define inherent problems. Collect data for problem-solving. Analyze data for root causes. Generate practical recommendations. The third edition of this global classic is the most comprehensive, all-in-one package of book, downloadable resources, color-coded RCA map, and licensed access to online resources currently available for Root Cause Analysis (RCA). Called by users "the best resource on the subject" and "in a league of its own." Based on globally successful, proprietary methodology developed by ABS Consulting, an international firm with 50 years' experience in 35 countries. Root Cause Analysis Handbook is widely used in corporate training programs and college courses all over the world. If you are responsible for quality, reliability, safety, and/or risk management, you'll want this comprehensive and practical resource at your fingertips. The book has also been selected by the American Society for Quality (ASQ) and the Risk and Insurance Society (RIMS) as a "must have" for their members.

Subsea Pipeline Integrity and Risk Management
Yong Bai 2014-02-21
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

Proceedings of the ... International Pipeline Conference 2007

Emergency Response Guidebook
U.S. Department of Transportation 2013-06-03
Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

Pipe Line Rules of Thumb Handbook
E. W. McAllister 1993
A guide for engineers and pipeline personnel, updated and expanded (2nd ed., 1988) to reflect the latest advances in pipeline technology. Originally published as a series of articles in Pipe Line Industry magazine, it includes formulas, correlations, curves, charts, tables, and shortcuts for pipeline construction, design, and engineering for oil, gas, and products pipelines. This edition adds a new chapter on rehabilitation–risk evaluation; existing chapters have new articles on pipeline welding; relief valve sizing, selection, installation, and testing; sizing valves for gas and vapor; advances in pipeline protection; considerations for selecting energy measurement equipment; reciprocating pumps; and choosing the right technology for integrated SCADA communications. Includes a demo disk for a new software version. Annotation copyright by Book News, Inc., Portland, OR

Proceedings - Offshore Technology Conference 1998

Cold Regions Engineering
Kelly S. Merrill 2002
This collection contains 92 papers presented at the 11th International Conference on Cold Regions Engineering, held in Anchorage, Alaska, May 20-22, 2002.

Materials Performance 2002

Transmission Pipelines and Land Use
Transportation Research Board 2004-01-01
TRB Special Report 281: Transmission Pipelines and Land Use: A Risk-Informed Approach calls upon the U.S. Department of Transportation’s Office of Pipeline Safety in the Research and Special Programs Administration to work with stakeholders in developing risk-informed land use guidance for use by policy makers, planners, local officials, and the public.

Pipeline Leak Detection Handbook
Morgan Henrie 2016-07-07
Pipeline Leak Detection Handbook is a concise, detailed, and inclusive leak detection best practices text and reference book. It begins with the basics of leak detection technologies that include leak detection systems, and information on pipeline leaks, their causes, and subsequent consequences. The book moves on to further explore system infrastructures, performance, human factors, installation, and integrity management, and is a must-have resource to help oil and gas professionals gain a comprehensive understanding of the identification, selection, design, testing, and implantation of a leak detection system. Informs oil and gas pipeline professionals on the basics of leak detection technologies, the required field instrumentation, telecommunication infrastructures, human factors, and risk mitigation considerations Leads the reader through the complex process of understanding the pipeline’s unique environment and how to develop a leak detection program

Asian Oil & Gas 2006

Pipeline Risk Management Manual
W. Kent Muhlbauer 1996
Here's the ideal tool if you're looking for a flexible, straightforward analysis system for your everyday design and operations decisions. Now expanded and updated, this widely accepted standard reference guides you in managing the risks involved in pipeline operations. You'll also find ways to create a resource allocation model by linking risk with cost and customize the risk assessment technique to your specific requirements. The clear step-by-step instructions and more than 50 examples make it easy. This edition has been expanded to include offshore pipelines and distribution system pipelines as well as cross-country liquid and gas transmission pipelines.

Offshore Process Safety
2018-06-18
Methods in Chemical Process Safety, Volume Two, the latest release in a serial that publishes fully commissioned methods papers across the field of process safety, risk assessment, and management and loss prevention, aims to provide informative, visual and current content that appeals to both researchers and practitioners in process safety. This new release contains unique chapters on offshore safety, offshore platform safety, human factors in offshore operation, marine safety, safety during well drilling and operation, safety during processing (top side), safety during transportation of natural resources (offshore pipeline), and regulatory context Helps acquaint the reader/researcher with the fundamentals of process safety Provides the most recent advancements and contributions on the topic from a practical point-of-view Presents users with the views/opinions of experts in each topic Includes a selection of the author(s) of each chapter from among the leading researchers and/or practitioners for each given topic

Safety and Security Engineering VI
C.A. Brebbia 2015-05-06
This book contains the proceedings of the sixth in a series of interdisciplinary conferences on safety and security engineering. The papers from the biennial conference, first held in 2005, include the work of engineers, scientists, field researchers, managers and other specialists involved in one or more aspects of safety and security. The papers presented cover areas such as: Risk Analysis; Assessment and Management; System Safety Engineering; Incident Management; Information and Communication Security; Natural Disaster Management; Emergency Response; Critical Infrastructure Protection; Public Safety and Security; Human Factors; Transportation Safety and Security; Modelling and Experiments; Security Surveillance Systems.

The Journal of Canadian Petroleum Technology 1993

Trenchless Technology: Pipeline and Utility Design, Construction, and Renewal, Second Edition
Mohammad Najafi 2021-10-22
A fully updated guide to no-dig engineering This thoroughly revised reference covers the latest techniques and materials for high-demand trenchless technology in underground projects. The book offers complete details on new tools, techniques, and analysis methods that can save you thousands of dollars in costs and weeks of surface disruptions. Written by recognized experts in the field, Trenchless Technology Pipeline and Utility Design, Construction, and Renewal, Second Edition offers clear explanations of the various trenchless technologies available—from pipe ramming, microtunneling, horizontal auger boring, horizontal directional drilling, pilot tube, direct pipe; to cured-in-place pipe, spray applied pipe lining, pipe replacement (bursting) and sliplining. Readers will get complete instruction on how to choose the best method for the project at hand.

Refreshed throughout to reflect current tools, techniques, and regulations Explains pipe materials, social and environmental costs, pipe jacking, pipeline and pipeline renewal with reference to NASSCO and ASTM standards, as well as relevant EPA guidelines Written by nation’s leading experts on the topic *Handbook of Natural Gas Transmission and Processing*
Saeid Mokhtab 2017-09-01
Handbook of Natural Gas Transmission and Processing gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry. The authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time. It is an invaluable reference on natural gas engineering and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects. Provides practicing engineers critical information on all aspects of gas gathering, processing and transmission First book that treats multiphase flow transmission in great detail Examines natural gas energy costs and pricing with the aim of delivering on the goals of efficiency, quality and profit

Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering 1995

International Conference on Computational and Information Sciences (IC CIS) 2014
2014-11-11
The 6th International Conference on Computational and Information Sciences (IC CIS2014) will be held in NanChong, China. The 6th International Conference on Computational and Information Sciences (IC CIS2014)aims at bringing researchers in the areas of computational and information sciences to exchange new ideas and to explore new ground. The goal of the conference is to push the application of modern computing technologies to science, engineering, and information technologies.Following the success of IC CIS2004,IC CIS2010 and IC CIS2011,IC CIS2012,IC CIS2013,IC CIS2014 conference will consist of invited keynote presentations and contributed presentations of the latest developments in computational and information sciences. The 2014 International Conference on Computational and Information Sciences (IC CIS 2014), now in its sixth run, has become one of the premier conferences in this dynamic and exciting field. The goal of IC CIS is to catalyze the communications among various communities in computational and information sciences. IC CIS provides a venue for the participants to share their recent research and development, to seek for collaboration resources and opportunities, and to build professional networks.

Pipeline Risk Management Manual
W. Kent Muhlbauer 2005*

Pipeline Planning and Construction Field Manual
E. Shashi Menon 2011
The objective of this book is to provide engineers with the necessary tools and techniques for formulating plans, designs, cost estimates and specifications for pipeline construction and field maintenance and modernization programs. Packed with easy to read and understand tables, pipeline schematics, bullet lists and "what to do next" checklists. This easy to use book covers the design, construction, and operation of onshore pipeline systems. The incorporate construction methods, commissioning, pressure testing, and start up into the design of a pipeline system. The focus is on pipeline routing, mechanical design, construction methods, hydraulics, installation, and operations of onshore pipeline systems. With this book readers will acquire and/or consolidate the essential knowledge and skills to design, construct, and operate pipelines. Design and simulation problems are an integral part of this book. With this book in hand, engineers will be able to: Routine auditing of technical work output relative to technical input and established criteria and expectations. Assessment and estimation of work scope including pipeline design integrity and resourcing requirements from enquiry through to project completion. To carry out conceptual designs in support of concept selection studies. Back-of-the envelope calculations Checklists for maintenance operations Checklists for environmental compliance Simulations, modeling tools and equipment design Guide for pump and pumping station placement

The Software Encyclopedia 2000
Bowker Editorial Staff 2000-05

Pipeline Risk Management Manual
W. Kent Muhlbauer 2004
Here's the ideal tool if you're looking for a flexible, straightforward analysis system for your everyday design and operations decisions. This new third edition includes sections on stations, geographical information systems, "absolute" versus "relative" risks, and the latest regulatory developments. From design to day-to-day operations and maintenance, this unique volume covers every facet of pipeline risk management, arguably the most important, definitely the most hotly debated, aspect of pipelining today. Now expanded and updated, this widely accepted standard reference guides you in managing the risks involved in pipeline operations. You'll also find ways to create a resource allocation model by linking risk with cost and customize the risk assessment technique to your specific requirements. The clear step-by-step instructions and more than 50 examples make it easy. This edition has been expanded to include offshore pipelines and distribution system pipelines as well as cross-country liquid and gas transmission pipelines. The only comprehensive manual for pipeline risk management Updated material on stations, geographical information systems, "absolute" versus "relative" risks, and the latest regulatory developments Set the standards for global pipeline risk management

Mitigation of Gas Pipeline Integrity Problems
Mavis Sika Okyere 2020-10-04
Mitigation of Gas Pipeline Integrity Problems presents the methodology to enable engineers, experienced or not, to alleviate pipeline integrity problems during operation. It explains the principal considerations and establishes a common approach in tackling technical challenges that may arise during gas production. Covers third-party damage, corrosion, geotechnical hazards, stress corrosion cracking, off-spec sales gas, improper design or material selection, as-built flaws, improper operations, and leak and break detection Details various hazard mitigation options Offers tested concepts of pipeline integrity blended with recent research results, documented in a scholarly fashion to make it simple to the average reader This practical work serves the needs of advanced students, researchers, and professionals working in pipeline engineering and petrochemical industries.

Brewing Up Murder
Neila Young 2017-07-19
As the owner of Mystery Cup Café in Wilton, Missouri, a town made famous by a string of long-ago murders, Blake Harper is used to the mysterious. When her barista is found strangled in a mound of coffee beans, Blake vows to find the killer, even though her sister, the town’s lead police detective, tells her to stay out of it. Blake finds plenty of suspects, like the owners of a rival coffee shop and the handsome new bookstore owner. But when new threats are made, she soon realizes the danger is centered around Mystery Cup and someone is targeting her personally. Will Blake be able to solve the murder, find a new barista, and perfect her recipe for espresso brownies before she becomes the next victim?

International Workshop on Corrosion Control for Marine Structures and Pipelines 2000

Veterinary Clinical Pathology
Kathleen P. Freeman 2015-06-16
Veterinary Clinical Pathology: A Case-Based Approach presents 200 cases with questions for those interested in improving their skills in veterinary clinical pathology. It emphasises an understanding of basic pathophysiological mechanisms of disease, differential diagnoses and recognition of patterns associated with various diseases or conditions. Topics discussed include haematology, clinical chemistry, endocrinology, acid-base and blood gas analysis, haemostasis, urinalysis, biological variation and quality control. Species covered include the cat, dog and horse, with additional material on ruminants. Cases vary in difficulty, allowing beginners to improve their clinicopathologic skills while more complicated cases, or cases treating unfamiliar topics, are included for experienced readers. This book is a helpful revision aid for those in training as well as for those in practice who are pursuing continuing education. It is also a valuable resource for veterinary nurses and technicians.

Oil & Gas Pipelines in Nontechnical Language
Thomas O. Miesner 2006
This text explains the how's and why's of the pipeline industry. It was written for those not directly involved in pipeline operations - legal, supply, accounting, finance, and human resource specialists, and people who service and sell equipment to pipeline companies. But even engineers and expert pipeliners can gain insights from the book's depth and broad perspective.

Proceedings of the 1998 International Workshop on Pipeline Risk Assessment and Management 1999

Guidelines for Chemical Transportatnion Risk Analysis
American Institute of Chemical Engineers. Center for Chemical Process Safety 1995-04-15
In today’s environment, management and citizen concerns make the skilled practice of Transportation Risk Analysis (TRA) imperative. This book offers a sound, basic approach to TRA, which can be used to manage and control transportation risks by identifying the parameters with the greatest influence on a given movement, or to identify and evaluate risk reduction strategies. Together with Guidelines for Chemical Process Quantitative Risk Analysis (CCPS, 1989), it will enable the process engineer to run basic analyses and to effectively manage those, which are more complex.

Corrosion Control in the Oil and Gas Industry
Sankara Papavinasam 2013-10-15
The effect of corrosion in the oil industry leads to the failure of parts. This failure results in shutting down the plant to clean the facility. The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at \$27 billion (According to NACE International)—leading some to estimate the global annual cost to the oil and gas industry as exceeding \$60 billion. In addition, corrosion commonly causes serious environmental problems, such as spills and releases. An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure, Corrosion Control in the Oil and Gas Industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion-management programs for oil and gas infrastructures. The book addresses all segments of the industry, including production, transmission, storage, refining and distribution. Selects cost-effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1,000 industry best practices and international standards

Cross Country Pipeline Risk Assessments and Mitigation Strategies
Arafat Aloqaily 2018-07-12
Cross Country Pipeline Risk Assessments and Mitigation Strategies describes the process of pipeline risk management and hazard identification, using qualitative risk assessment, consequence modeling/evaluation, pipeline failure rates, and risk calculations, as well as risk mitigation and control strategies. The book evaluates potential causes of pipeline failure in the oil and gas industry based on a wide range of data that cover more than 40 years of operating history. Additionally, it details a consistent approach that allows for proper estimation of potential risk and offers methods for mitigating this potential risk. This approach is then combined with consequence modeling to fully calculate the different forms of risk presented by pipelines. Cross Country Pipeline Risk Assessments and Mitigation Strategies is an essential resource for professionals and experts involved in pipeline design as well as researchers and students studying risk assessment, particularly in relation to pipelines. Offers a practical risk assessment model for pipelines without the need for complicated, expensive software Describes a new and systematic approach for pipeline risk control and mitigation that reflects actual pipeline conditions and operating status Provides examples of all pipeline hazard identification techniques and how they are used to produce consistent results Includes access to a newly developed Excel tool PipeFAIT for assessing pipeline risk

Pipeline Engineering ebook Collection
E.W. McAllister 2008-09-05
Pipeline Engineering ebook Collection contains 6 of our best-selling titles, providing the ultimate reference for every pipeline professional’s library. Get access to over 3000 pages of reference material, at a fraction of the price of the hard-copy books. This CD contains the complete ebooks of the following 6 titles: McAllister, Pipeline Rules of Thumb 6th Edition, 9780750678520 Muhlbauer, Pipeline Risk Management Manual 3rd Edition, 9780750675796 Parker, Pipeline Corrosion & Cathodic Protection 3rd Edition, 9780872011496 Escoe, Piping & Pipeline Assessment Guide V1, 9780750678803 Parishser, Pipe Drafting & Design 2nd Edition, 9780750674393 Farshad, Plastic Pipe Systems: Failure Investigation and Diagnosis, 9781856174961 *Six fully searchable titles on one CD providing instant access to the ULTIMATE library of engineering materials for pipeline professionals *3000 pages of practical and theoretical pipeline information in one portable package. * Incredible value at a fraction of the cost of the print books

Encyclopedia of Chemical Processing (Online)
Sunggyu Lee 2005-11-01
This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods, practices, products, and standards influencing the chemical industries. It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques. This collecting of information is of vital interest to chemical, polymer, electrical, mechanical, and civil engineers, as well as chemists and chemical researchers. A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design, whose first volume published in 1976, this resource offers extensive A-Z treatment of the subject in five simultaneously published volumes, with comprehensive indexing of all five volumes in the back matter of each tome. It includes material on the design of key unit operations involved with chemical processes; the design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; and pilot plant design and scale-up criteria. This reference contains well-researched sections on automation, equipment, design and simulation, reliability and maintenance, separations technologies, and energy and environmental issues. Authoritative contributions cover chemical processing equipment, engineered systems, and laboratory apparatus currently utilized in the field. It also presents expert overviews on key engineering science topics in property predictions, measurements and analysis, novel materials and devices, and emerging chemical fields. ALSO AVAILABLE ONLINE
This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for both researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Gas Abstracts 1996

Risk and Reliability Analysis: Theory and Applications
Paolo Gardoni 2017-02-24
This book presents a unique collection of contributions from some of the foremost scholars in the field of risk and reliability analysis. Combining the most advanced analysis techniques with practical applications, it is one of the most comprehensive and up-to-date books available on risk-based engineering. All the fundamental concepts needed to conduct risk and reliability assessments are covered in detail, providing readers with a sound understanding of the field and making the book a powerful tool for students and researchers alike. This book was prepared in honor of Professor Armen Der Kiureghian, one of the fathers of modern risk and reliability analysis.

Oil and Gas Pipelines
R. Winston Revie 2015-04-20
A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore Covers a wide variety of topics, including design, pipe manufacture, pipeline welding, human factors, residual stresses, mechanical damage, fracture and corrosion, protection, inspection and monitoring, pipeline cleaning, direct assessment, repair, risk management, and abandonment Links modern and vintage practices to help integrity engineers better understand their system and apply up-to-date technology to older infrastructure Includes case histories with examples of solutions to complex problems related to pipeline integrity Includes chapters on stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety

Pipeline Risk Management Manual
W. Kent Muhlbauer 1996
Where is the greatest potential for failure in pipeline operations? What portion of the pipeline budget should be spent on maintenance? Will more surveillance or more safety devices substantially reduce pipeline risk exposure? This indispensable book answers these questions and many more like them. Pipeline Risk Management Manual provides pipeline professionals with a practical risk-management tool that does not require huge databases, complicated calculations, or detailed probabilistic theories. A unique indexing system provides a step-by-step procedure for analyzing cross-country pipeline facilities. It incorporates factors that contribute to or reduce pipeline failures such as third party activity levels, design criteria, corrosion potential and control, human error, and the consequences of failure. Pipeline professionals can use these factors to compare relative risks and to make decisions using a quantifiable, objective system of analysis. Historical data, work experience, and even an element of common sense can also be factored into this versatile, flexible risk assessment tool. As a result, this revolutionary new approach will become a vital part of your everyday design, business, and operations decisions.

