

Dennis P. Nolan† | Eric T. Anderson



Applied Operational Excellence for the Oil, Gas, and Process Industries



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Dennis P. Nolan, Eric T Anderson



Applied Operational Excellence For The Oil Gas And Process Industries:

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Applied Operational Excellence for the Oil Gas and Process Industries offers a straightforward practical guide for oil and gas companies to understand the comparisons and contrasts between various types of safety management processes including the standardized structure and ongoing extended benefits that operational excellence can bring to an oil and gas company. The goal of achieving operational excellence is to reduce costs, improve productivity and enhance efficiency in other words operational excellence contributes to the bottom line. Following along with pre built success in the process industries many companies in the oil and gas industry appear to use a subset form of operational excellence yet many are unsure or unaware of all the safety system components that will truly benefit the company holistically and current literature is only applicable to the process and manufacturing industries. Packed with clear objectives and tools structure guidelines specific to oil and gas and guidance for how to imbed your existing safety program under the operational excellence umbrella known as One Step Merger this book will help you establish an overall safety culture vision and challenge your organization to achieve higher levels of safety management and overall company value. Explores how to solidify a foundational operational excellence program applicable for your oil and gas company. Clarifies the differences and benefits among various programs under operational excellence OE such as SHE safety health and environment PSM process safety management and SMS safety management system. Explains how to audit and consistently assess how oil and gas OE systems are planned implemented and managed with explanations on cost and time impacts as well as administrative protocols. Includes a glossary acronym appendix and additional references for further reading.

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Clarifies the differences and benefits among various programs under operational excellence OE such as SHE safety health and environment PSM process safety management and SMS safety management system Explains how to audit and consistently assess how oil and gas OE systems are planned implemented and managed with explanations on cost and time impacts as well as administrative protocols Includes a glossary acronym appendix and additional references for further reading

Turnaround Management for the Oil, Gas, and Process Industries Robert Bruce Hey, 2019-06-11 Turnaround Management for the Oil Gas and Process Industries A Project Management Approach helps readers understand the phases of development in preparation for a turnaround with each relevant phase easily identified Specific to the process industry especially oil and gas petrochemical and power plants this reference simplifies the entire lifecycle of a turnaround and provides specific examples of both successful and unsuccessful turnaround projects By identifying the most significant performance indicators and strategies to ensure that targets are met this book will help plant managers keep plants safe efficient and running successfully Aligns turnaround project management with ISO guidance and ANSI PMI standards Utilizes the best tools for long term planning including instructional videos and training material Helps users gain practical knowledge through both good and bad turnaround management case studies Presents real world issues and challenges encountered

Plant Design and Operations Ian Sutton, 2017-06-14 Plant Design and Operations Second Edition explores design and operational considerations for oil and gas facilities covering all stages of the plant cycle with an emphasis on safety and risk The oil and gas industry is constantly looking for cost optimization strategies requiring plant based personnel to expand their knowledge base outside their discipline or subject Relevant reference materials are scattered throughout various official standards while staff lack the immediate hands on knowledge to safely facilitate the full operational life cycle of the plant This second edition is a complete source of solutions for major process projects including offshore facilities chemical plants oil refineries and pipelines This single reference provides insight for safer operations and maintenance best practices It has been updated with more focus on safety in design and operations standards and compliance and more detailed information on equipment and system component design Explores design and operational considerations for oil and gas facilities covering all stages of the plant cycle with an emphasis on safety and risk Includes updated new chapters covering principles of design security regulations and human factors Includes more relevant equipment information covering storage tanks valves and control systems Remains the only source to provide hands on solutions for process plants in the refining and chemical industries

Industrial DevOps Dr. Suzette Johnson, Robin Yeman, 2023-10-10 The benefits of adopting agile ways of working are well understood in the digital world But those in cyber physical systems combining software hardware and firmware think it is risky But with today s speed of change maybe the risk is in not changing Industrial DevOps Build Better Systems Faster shows readers how applying Agile and DevOps ways of working into cyber physical systems presents the opportunity to reap huge rewards including increased adaptability shorter delivery schedules

reduced development cost increased quality and higher transparency into delivery This book shows you how to couple the results of Agile and DevOps implementation in development with Lean and Agile in manufacturing Through a successful application of 9 key principles Industrial DevOps provides the foundational success patterns for the development of cyber physical systems in the digital age The benefits that have been obtained across industries can be transferred to the cyber physical domain and they have the potential to provide an even greater impact in the delivery of products

Fire Pump Arrangements at Industrial Facilities Dennis P. Nolan, 2017-05-22 *Fire Pump Arrangements at Industrial Facilities* Third Edition delivers a practical reference from an author with a successful professional career in fire protection and loss prevention engineering in the oil and gas industry While most regulatory standards are left to interpretation and try to cover multiple industries in one location this book focuses on the equipment standards and operations specific to the petroleum industry covering quality controls pump drivers and scheduled maintenance and audits so the equipment remains in safety compliance Enhanced with new sections on human factors case studies for modeling fire accidents and a look at recent events that have further shaped the safety and testing of fire pumps the book provides the engineer and manager with a critical oil and gas resource for every aspect of firewater pumps Remains the go to reference for loss prevention specialists and fire engineering specific to the oil and gas industry Enhanced with new sections on quality audits and new case studies that evaluate operational issues and applications Fills in the practical hands on information gap not covered in the regulatory standards

Data Analytics: Paving the Way to Sustainable Urban Mobility Eftihia G. Nathanail, Ioannis D.

Karakikes, 2018-12-11 This book aims at showing how big data sources and data analytics can play an important role in sustainable mobility It is especially intended to provide academicians researchers practitioners and decision makers with a snapshot of methods that can be effectively used to improve urban mobility The different chapters which report on contributions presented at the 4th Conference on Sustainable Urban Mobility held on May 24 25 2018 in Skiathos Island Greece cover different thematic areas such as social networks and traveler behavior applications of big data technologies in transportation and analytics transport infrastructure and traffic management transportation modeling vehicle emissions and environmental impacts public transport and demand responsive systems intermodal interchanges smart city logistics systems data security and associated legal aspects They show in particular how to apply big data in improving urban mobility discuss important challenges in developing and implementing analytics methods and provide the reader with an up to date review of the most representative research on data management techniques for enabling sustainable urban mobility

Process Risk and Reliability Management Ian Sutton, 2014-09-11 In the last twenty years considerable progress has been made in process risk and reliability management particularly in regard to regulatory compliance Many companies are now looking to go beyond mere compliance they are expanding their process safety management PSM programs to improve performance not just in safety but also in environmental compliance quality control and overall profitability Techniques and principles are

illustrated with numerous examples from chemical plants refineries transportation pipelines and offshore oil and gas This book helps executives managers and technical professionals achieve not only their current PSM goals but also to make the transition to a broader operational integrity strategy The book focuses on the energy and process industries from refineries to pipelines chemical plants transportation energy and offshore facilities The techniques described in the book can also be applied to a wide range of non process industries The book is both thorough and practical It discusses theoretical principles in a wide variety of areas such as management of change risk analysis and incident investigation and then goes on to show how these principles work in practice either in the design office or in an operating facility The second edition has been expanded revised and updated and many new sections have been added including The impact of resource limitations a review of some recent major incidents the value of story telling as a means of conveying process safety values and principles and the impact of the proposed changes to the OSHA PSM standard Learn how to develop a thorough and complete process safety management program Go beyond traditional hazards analysis and risk management programs to explore a company s entire range of procedures processes and management issues Understand how to develop a culture of process safety and operational excellence that goes beyond simple rule compliance Develop process safety programs for both onshore facilities EPA OSHA and offshore platforms and rigs BSEE and to meet Safety Case requirements

A Systems Approach to Managing the Complexities of Process Industries Fabienne-Fariba Salimi, Frederic Salimi, 2017-11-28 A Systems Approach to Managing the Complexities of Process Industries discusses the principles of system engineering system thinking complexity thinking and how these apply to the process industry including benefits and implementation in process safety management systems The book focuses on the ways system engineering skills PLM and IIoT can radically improve effectiveness of implementation of the process safety management system Covering lifecycle megaproject system engineering and project management issues this book reviews available tools and software and presents the practical web based approach of Analysis Dynamic Evaluation of Project Processes ADEPP for system engineering of the process manufacturing development and operation phases Key solutions proposed include adding complexity management steps in the risk assessment framework of ISO 31000 and utilization of Installation Lifecycle Management This study of this end to end process will help users improve operational excellence and navigate the complexities of managing a chemical or processing plant Presents a review of Operational Excellence and Process Safety Management Methods along with solutions to complexity assessment and management Provides a comparison of the process manufacturing industry with discrete manufacturing identifying similarities and areas of customization for process manufacturing Discusses key solutions for managing the complexities of process manufacturing development and operational phases

The Impact of Automatic Control Research on Industrial Innovation Silvia Mastellone, Alex van Delft, 2023-12-08 The Impact of Automatic Control Research on Industrial Innovation Bring together the theory and practice of control research with this innovative overview

Automatic control research focuses on subjects pertaining to the theory and practice of automation science and technology subjects such as industrial automation robotics and human machine interaction With each passing year these subjects become more relevant to researchers policymakers industrialists and workers alike The work of academic control researchers however is often distant from the perspectives of industry practitioners creating the potential for insights to be lost on both sides The Impact of Automatic Control Research on Industrial Innovation seeks to close this distance providing an industrial perspective on the future of control research It seeks to outline the possible and ongoing impacts of automatic control technologies across a range of industries enabling readers to understand the connection between theory and practice The result is a book that combines scholarly and practical understandings of industrial innovations and their possible role in building a sustainable world The Impact of Automatic Control Research on Industrial Innovation readers will also find Insights on industrial and commercial applications of automatic control theory Detailed discussion of industrial sectors including power automotive production processes and more An applied research roadmap for each sector This book is a must own for both control researchers and control engineers in both theoretical and applied contexts as well as for graduate or continuing education courses on control theory and practice Editorial board Silvia Mastellone University of Applied Science Northwestern Switzerland Alex van Delft vanDelft it DSM Tariq Samad University of Minnesota Iven Mareels Federation University Australia IBM Scott Bortoff Mitsubishi Electric Research Labs Stefano Di Cairano Mitsubishi Electric Research Labs Alisa Rupenyan ETHZ

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