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Managing the Risk of Offshore Oil and Gas Accidents Offshore Risk Assessment vol 1. Regulation of the Upstream Petroleum Sector Energy Law in Australia Marine Pollution - Emerging Issues and Challenges Sensemaking in Safety Critical and Complex Situations Human Factors in the Chemical and Process Industries Process Safety and Big Data Plant Design and Operations Advances in Safety Management and Human Factors Process Safety for Engineers Methods in Chemical Process Safety Seafloor heterogeneity: Artificial structures and marine ecosystem dynamics - recent advances Offshore Wind Licensing Risk Analysis of Vapour Cloud Explosions for Oil and Gas Facilities Bow Ties in Risk Management Risk Assessment Mooring System Engineering for Offshore Structures Well Integrity for Workovers and Recompletions Ageing and Life Extension of Offshore Structures Food Safety Management Process Safety in Upstream Oil and Gas Plant Hazard Analysis and Safety Instrumentation Systems Redefining Work Health and Safety Offshore Risk Assessment vol 2. Process Control Marine Conservation: Knowledge, 

### <u>Managing the Risk of Offshore Oil and Gas</u> Accidents

2019

this book addresses the international legal dimension of the management of the risk of accidents associated with offshore oil and gas activities it focuses on the prevention and minimization of harm as well as the post accident management of loss through liability and compensation arrangements and the processing of mass claims for compensation government officials of countries with offshore industries international civil servants and academics in related fields will find the book a valuable resource

#### Offshore Risk Assessment vol 1.

2013-08-24

offshore risk assessment was the first book to deal with quantified risk assessment gra as applied specifically to offshore installations and operations risk assessment techniques have been used for more than three decades in the offshore oil and gas industry and their use is set to expand increasingly as the industry moves into new areas and faces new challenges in older regions this updated and expanded third edition has been informed by a major r d program on offshore risk assessment in norway and summarizes research from 2006 to the present day rooted with a thorough discussion of risk metrics and risk analysis methodology subsequent chapters are devoted to analytical approaches to escalation escape evacuation and rescue analysis of safety and emergency systems separate chapters analyze the main hazards of offshore structures fire explosion collision and falling objects as well as structural and marine hazards risk mitigation and control are discussed as well as an illustration of how the results from quantitative risk assessment studies should be presented the third second edition has a stronger focus on the use of risk assessment techniques in the operation of offshore installations also decommissioning of installations is covered not only does offshore risk assessment describe the state of the art of gra it also identifies weaknesses and areas that need further development this new edition also illustrates applications or quantitative risk analysis methodology to offshore petroleum applications a comprehensive reference for academics and students of marine offshore risk assessment and management the book should also be owned by professionals in the industry contractors suppliers consultants and regulatory authorities

### Regulation of the Upstream Petroleum Sector

2015-05-29

this discerning and comprehensive work will be a useful entry point for students embarking on study in petroleum law academics will find this timely examination to be an indispensible overview of upstream operations practitioners will find this book

### **Energy Law in Australia**

2018-03-27

derived from the renowned multi volume international encyclopaedia of laws this book provides a systematic approach to legislation and legal practice concerning energy resources and production in australia the book describes the administrative organization regulatory framework and relevant case law pertaining to the development application and use of such forms of energy as electricity gas petroleum and coal with attention as needed to the pervasive legal effects of competition law environmental law and tax law a general introduction covers the geography of energy resources sources and basic principles of energy law and the relevant governmental institutions then follows a detailed description of specific legislation and regulation affecting such factors as documentation undertakings facilities storage pricing procurement and sales transportation transmission distribution and supply of each form of energy case law intergovernmental cooperation agreements and interactions with environmental tax and competition law are explained its succinct yet scholarly nature as well as the practical quality of the information it provides make this book a valuable resource for energy sector policymakers and energy firm counsel handling cases affecting australia it will also be welcomed by researchers and academics for its contribution to the study of a complex field that today stands at the foreground of comparative law

# Marine Pollution - Emerging Issues and Challenges

2022-07-04

sensemaking in safety critical and complex situations human factors and design human factors based design that supports the strengths and weaknesses of humans are often missed during the concept and design of complex technical systems with the focus on digitalization and automation the human actor is often left out of the loop but needs to step in during safety critical situations this book describes how

human factors and sensemaking can be used as part of the concept and design of safety critical systems in order to improve safety and resilience this book discusses the challenges of automation and automated systems when humans are left out of the loop and then need to intervene when the situation calls for it it covers human control and accepts that humans must handle the unexpected and describes methods to support this it is based on recent accident analysis involving autonomous systems that move our understanding forward and supports a more modern view on human errors to improve safety in industries such as shipping and marine the book is for human factors and ergonomists safety engineers designers involved in safety critical work and students stig ole johnsen is a senior researcher at sintef in norway he has a phd from ntnu in norway with a focus on resilience in complex socio technical systems and has a master s in technology management from mit ntnu he chairs the human factors in control network hfc in norway to strengthen the human factors focus during development and implementation of safety critical technology his research interests include meaningful human control to support safety and resilience during automation and digitalization thomas porathe has a degree in information design from malardalen university in sweden he is currently professor of interaction design at the norwegian university of science and technology in trondheim norway he specializes in maritime human factors and design of maritime information systems specifically directed towards control room design e navigation and autonomous ships he has been working with e navigation since 2006 in eu projects such as blast efficiensea monalisa accseas sesame and the unmanned ship project munin he is active in the international association of aids to navigation and lighthouse authorities iala

### Sensemaking in Safety Critical and Complex Situations

2021-07-13

human factors in the chemical and process industries making it work in practice is a comprehensive overview of human factors within this sector focusing on the practical application it has been written by acknowledged industry experts from the keil centre which is a leading practice of chartered ergonomics and human factors specialists chartered safety specialists registered occupational psychologists and registered clinical psychologists the book was inspired by the international human factors training course run by the keil centre with the icheme which has reached four continents across the world the book is written for those who want a comprehensive overview of the subject focusing on the practical application of human factors it has

been written for safety professionals engineers and operational disciplines within industry and those aspiring to these disciplines who either deal with human factors issues or any aspect of the human element in their core role the book explains what human factors is about and how human factors issues are best managed from a practical perspective it will help readers develop a greater understanding of the area and how to establish more effective solutions for human factors related issues provides comprehensive coverage of the most relevant human factors within this sector with succinct overviews of each topic uses case studies and practical examples to illustrate topics and explains the material in a fully accessible easy to understand style written by a single team of eleven industry practitioners drawing on the combined expertise of different human factors specialisms which are rarely comprehensively combined in a single resource

### <u>Human Factors in the Chemical and Process</u> <u>Industries</u>

2016-09-17

process safety and big data discusses the principles of process safety and advanced information technologies it explains how these principles are applied to the process industry and provides examples of applications in process safety control and decision support systems this book helps to address problems that researchers face in industry that are the result of increased process complexity and that have an impact on safety issues it shows ways to tackle these safety issues by implementing modern information technologies such as big data analysis and artificial intelligence it provides an integrated approach to modern information technologies used in control and management of process safety in industry the book also considers indicators and criteria in effective safety decisions and addresses the issue of how big data would provide support for improved autonomous data driven decisions paves the way for the digital transformation of safety science and safety management takes a system approach to advanced information technologies used in process safety applies big data technologies to process safety includes multiple pertinent case studies

### **Process Safety and Big Data**

2021-02-18

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

### Plant Design and Operations

2017-06-14

this book discusses the latest findings on ensuring employees safety health and welfare at work it combines a range of disciplines e g work physiology health informatics safety engineering workplace design injury prevention and occupational psychology and presents new strategies for safety management including accident prevention methods such as performance testing and participatory ergonomics the book which is based on the ahfe 2018 international conference on safety management and human factors held on july 21 25 2018 in orlando florida usa provides readers including decision makers professional ergonomists and program managers in government and public authorities with a timely snapshot of the state of the art in the field of safety health and welfare management it also addresses agencies such as the occupational safety and health administration osha and the national institute for occupational safety and health niosh as well as other professionals dealing with occupational safety and health

### Advances in Safety Management and Human Factors

2018-06-25

process safety for engineers familiarizes an engineer new to process safety with the concept of process safety management in this

significantly revised second edition of process safety for engineers an introduction ccps delivers a comprehensive book showing how process safety concepts are used to reduce operational risks students new engineers and others new to process safety will benefit from this book in this updated edition each chapter begins with a detailed incident case study provides steps that help address issues and contains problem sets which can be assigned to students the second edition covers process safety including an overview of ccps risk based process safety hazards specifically fire and explosion reactive chemical and toxicity design considerations for hazard control including hazard identification and risk analysis management of operational risk including management of change in addition the book presents how process safety performance is monitored and sustained the associated online resources are linked to the latest online ccps resources and lectures

### Process Safety for Engineers

2022-05-03

methods in chemical process safety volume 1 publishes fully commissioned reviews across the field of process safety risk assessment and management and loss prevention it aims to serve as an informative tool and user manual for process safety for both engineering researchers and practitioners publishing one themed volume a year the publication provides a resource detailing the latest methods in the field of chemical process safety 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

### Methods in Chemical Process Safety

2017-04-06

this incisive book provides a timely and magisterial analysis of offshore wind licensing processes and their regulation from a global perspective it not only explores the concept of licensing and the governance frameworks and backgrounds in which licensing rules are developed but also looks at the crucial legal challenges facing the licensing of offshore wind farms that regulators legislatures operators and legal practitioners are likely to encounter

### <u>Seafloor heterogeneity: Artificial structures</u> <u>and marine ecosystem dynamics - recent advances</u>

2023-04-26

this book focuses on describing and applying risk analysis of vapour cloud explosions vces in various oil and gas facilities such as petrol stations processing plants and offshore platforms discussing most of the complicated features of gas explosion accidents the book studies in detail the gas explosion risk analysis approaches of different oil and gas facilities in order to develop more accurate detailed efficient and reliable risk analysis methods for vces under different conditions moreover it introduces an advanced overpressure approach to predict vces using computational fluid dynamics cfd modelling and details applications of cfd using a flame acceleration simulator flacs the book is intended for researchers and organisations engaged in risk and safety assessments of vces in the oil and gas industry

### Offshore Wind Licensing

2024-03-14

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

### Risk Analysis of Vapour Cloud Explosions for Oil and Gas Facilities

2019-05-11

introduces risk assessment with key theories proven methods and state of the art applications risk assessment theory methods and applications remains one of the few textbooks to address current risk analysis and risk assessment with an emphasis on the possibility of sudden major accidents across various areas of practice from machinery and manufacturing processes to nuclear power plants and transportation systems updated to align with iso 31000 and other amended standards this all new 2nd edition discusses the main ideas and techniques for assessing risk today the book begins with an introduction of risk analysis assessment and management and includes a new section on the history of risk analysis it covers hazards and threats how to measure and evaluate risk and risk management it also adds new sections on risk governance and risk informed decision making combining accident theories and criteria for evaluating data sources and subjective probabilities the risk assessment process is covered as are how to establish context planning and preparing and identification analysis and evaluation of risk risk assessment also offers new coverage of safe job analysis and semi quantitative methods and it discusses barrier management and hra methods for offshore application finally it looks at dynamic risk analysis security and life cycle use of risk serves as a practical and modern guide to the current applications of risk analysis and assessment supports key standards and supplements legislation related to risk analysis updated and revised to align with iso 31000 risk management and other new standards and includes new chapters on security dynamic risk analysis as well as life cycle use

of risk analysis provides in depth coverage on hazard identification methodologically outlining the steps for use of checklists conducting preliminary hazard analysis and job safety analysis presents new coverage on the history of risk analysis criteria for evaluating data sources risk informed decision making subjective probabilities semi quantitative methods and barrier management contains more applications and examples new and revised problems throughout and detailed appendices that outline key terms and acronyms supplemented with a book companion website containing solutions to problems presentation material and an instructor manual risk assessment theory methods and applications second edition is ideal for courses on risk analysis risk assessment and systems engineering at the upper undergraduate and graduate levels it is also an excellent reference and resource for engineers researchers consultants and practitioners who carry out risk assessment techniques in their everyday work

### Bow Ties in Risk Management

2018-09-11

the mooring system is a vital component of various floating facilities in the oil gas and renewables industries however there is a lack of comprehensive technical books dedicated to the subject mooring system engineering for offshore structures is the first book delivering in depth knowledge on all aspects of mooring systems from design and analysis to installation operation maintenance and integrity management the book gives beginners a solid look at the fundamentals involved during mooring designs with coverage on current standards and codes mooring analysis and theories behind the analysis techniques advanced engineers can stay up to date through operation integrity management and practical examples provided this book is recommended for students majoring in naval architecture marine or ocean engineering and allied disciplines in civil or mechanical engineering engineers and researchers in the offshore industry will benefit from the knowledge presented to understand the various types of mooring systems their design analysis and operations understand the various types of mooring systems and the theories behind mooring analysis gain practical experience and lessons learned from worldwide case studies combine engineering fundamentals with practical applications to solve today s offshore challenges

#### Risk Assessment

2020 - 02 - 19

well integrity for workovers and recompletions delivers the concise steps and processes necessary to ensure that production wells minimize failure after understanding the introductory background on well integrity and establishing the best baseline the reference advances into various failure modes that can be expected rounding out with an explanation and tools concerning economic considerations such as how to increase reserve potential and rate of return the book gives oil and gas engineers and managers a vital solution to keeping their assets safe and effective for the long term gain helps readers understand how to protect wells through the production workover and recompletion lifecycle both from an economic standpoint and technical view includes real world examples with quizzes included at the end of each chapter examines why establishing an integrity baseline is important along with a well integrity management system

### <u>Mooring System Engineering for Offshore</u> Structures

2019-06-04

a comprehensive overview of managing and assessing safety and functionality of ageing offshore structures and pipelines a significant proportion estimated at over 50 of the worldwide infrastructure of offshore structures and pipelines is in a life extension phase and is vulnerable to ageing processes this book captures the central elements of the management of ageing offshore structures and pipelines in the life extension phase the book gives an overview of the relevant ageing processes and hazards how ageing processes are managed through the life cycle including an overview of structural integrity management how an engineer should go about assessing a structure that is to be operated beyond its original design life and how ageing can be mitigated for safe and effective continued operation key features provides an understanding of ageing processes and how these can be mitigated applies engineering methods to ensure that existing structures can be operated longer rather than decommissioned unduly prematurely helps engineers performing these tasks in both evaluating the existing structures and maintaining ageing structures in a safe manner the book gives an updated summary of current practice and research on the topic of the management of ageing structures and pipelines in the life extension phase but also meets the needs of structural engineering students and practicing offshore and structural engineers in oil gas and engineering companies in addition it should be of value to regulators of the offshore industry

### Well Integrity for Workovers and Recompletions

2021-02-25

food safety management a practical guide for the food industry second edition continues to present a comprehensive integrated and practical approach to the management of food safety throughout the production chain while many books address specific aspects of food safety no other book guides you through the various risks associated with each sector of the production process or alerts you to the measures needed to mitigate those risks this new edition provides practical examples of incidents and their root causes highlighting pitfalls in food safety management and providing key insights into different means for avoiding them each section addresses its subject in terms of relevance and application to food safety and where applicable spoilage the book covers all types of risks e g microbial chemical physical associated with each step of the food chain making it an ideal resource addresses risks and controls at various stages of the food supply chain based on food type including a generic haccp study and new information on fsma covers the latest emerging technologies for ensuring food safety includes observations on what works and what doesn t on issues in food safety management provides practical guidelines for the implementation of elements of the food safety assurance system explains the role of different stakeholders of the food supply

### Ageing and Life Extension of Offshore Structures

2019-02-04

the book makes the case for process safety and provides a brief overviews of the upstream industry and of ccps risk based process safety the majority of the book focuses on the concepts of implementing process safety in wells onshore offshore and projects topics include overview of upstream operations overview of risk based process safety rbps application of rbps in drilling completions work overs interventions application of rbps in onshore production application of rbps in offshore production application of rbps to engineering design installation and construction future developments in the field

### Food Safety Management

2023-03-28

plant hazard analysis and safety instrumentation systems is the first

book to combine coverage of these two integral aspects of running a chemical processing plant it helps engineers from various disciplines learn how various analysis techniques international standards and instrumentation and controls provide layers of protection for basic process control systems and how as a result overall system reliability availability dependability and maintainability can be increased this step by step guide takes readers through the development of safety instrumented systems also including discussions on cost impact basics of statistics and reliability swapan basu brings more than 35 years of industrial experience to this book using practical examples to demonstrate concepts basu links between the sis requirements and process hazard analysis in order to complete sis lifecycle implementation and covers safety analysis and realization in control systems with up to date descriptions of modern concepts such as sil sis and fault tolerance to name a few in addition the book addresses security issues that are particularly important for the programmable systems in modern plants and discusses at length hazardous atmospheres and their impact on electrical enclosures and the use of is circuits helps the reader identify which hazard analysis method is the most appropriate covers alarp hazop fmea lopa provides tactics on how to implement standards such as iec 61508 61511 and ansi isa 84 presents information on how to conduct safety analysis and realization in control systems and safety instrumentation

### Process Safety in Upstream Oil and Gas

2021-03-18

this comprehensive book on workplace health and safety covers a range of topics essential for professionals and researchers in the field the initial chapter sets the tone by exploring challenges emphasizing the economic impacts of safety incidents and outlining the workplace safety landscape subsequent chapters delve into safety models accident causation and the evolution of linear and complex systems applying systems thinking to risk assessment human factors including ergonomics and organizational influences are thoroughly examined and an integrated safety management framework ismf is introduced and progressively evolved the book also scrutinizes risk concepts mindfulness situational awareness lesser known theories and a sociological perspective on safety the ismf is introduced and applied throughout providing a holistic approach to safety management the concluding chapter reflects on future challenges and directions while appendices offer a practical safety management system template overall the book equips safety professionals with insights and strategies for creating a culture of safety excellence

# Plant Hazard Analysis and Safety Instrumentation Systems

2016-10-21

offshore risk assessment was the first book to deal with quantified risk assessment gra as applied specifically to offshore installations and operations risk assessment techniques have been used for more than three decades in the offshore oil and gas industry and their use is set to expand increasingly as the industry moves into new areas and faces new challenges in older regions this updated and expanded third edition has been informed by a major r d program on offshore risk assessment in norway and summarizes research from 2006 to the present day rooted with a thorough discussion of risk metrics and risk analysis methodology subsequent chapters are devoted to analytical approaches to escalation escape evacuation and rescue analysis of safety and emergency systems separate chapters analyze the main hazards of offshore structures fire explosion collision and falling objects as well as structural and marine hazards risk mitigation and control are discussed as well as an illustration of how the results from quantitative risk assessment studies should be presented the third second edition has a stronger focus on the use of risk assessment techniques in the operation of offshore installations also decommissioning of installations is covered not only does offshore risk assessment describe the state of the art of gra it also identifies weaknesses and areas that need further development this new edition also illustrates applications or quantitative risk analysis methodology to offshore petroleum applications a comprehensive reference for academics and students of marine offshore risk assessment and management the book should also be owned by professionals in the industry contractors suppliers consultants and regulatory authorities

### Redefining Work Health and Safety

2024-02-13

process control details the core knowledge and practical skills that a successful process control practitioner needs it explains the essential technologies that are in use in current industrial practice or which may be wanting for the future the book focuses on practical considerations not only on those that make a control solution work but also on those that prevent it from failing especially for complex control loops and plant wide control solutions after discussing the indispensable role of control in modern process industries the authors concentrate on the skills required for process analysis control design

and troubleshooting one of the first books to provide a systematic approach and structured methodology for process analysis and control design process control illustrates that methodology with many practical examples that cover process control equipment control and control calculations derived from real projects and applications the book uses 229 drawings and 83 tables to make the concepts it presents more intuitive and its methodology easy to follow process control will help the practising control engineer to benefit from a wealth of practical experience and good ideas on how to make control work in the real world and students training to take up roles in process control are shown the applied relevance of control theory in the efficient functioning of industrial plant and the considerations needed to make it work advances in industrial control reports and encourages the transfer of technology in control engineering the rapid development of control technology has an impact on all areas of the control discipline the series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

#### Offshore Risk Assessment vol 2.

2013-10-01

### **Process Control**

2022-08-01

# Marine Conservation: Knowledge, Experience and Tools for Change

2022-03-08

2008-09-30

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2013-03



2020-10



1999-09-14

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