Disastrous Decisions The Human And Organisational Causes Of The Gulf Of Mexico Blowout

Right here, we have countless book **Disastrous Decisions The Human And Organisational Causes Of The Gulf Of Mexico Blowout** and collections to check out. We additionally find the money for variant types and moreover type of the books to browse. The usual book, fiction, history, novel, scientific research, as competently as various other sorts of books are readily easy to use here.

As this Disastrous Decisions The Human And Organisational Causes Of The Gulf Of Mexico Blowout , it ends going on brute one of the favored books Disastrous Decisions The Human And Organisational Causes Of The Gulf Of Mexico Blowout collections that we have. This is why you remain in the best website to see the incredible books to have.

Organization at the Limit - William Starbuck 2009-02-09
The book offers important insight relevant to Corporate, Governmentand Global organizations management in general. The internationallyrecognised authors tackle vital issues in decision making, howorganizational risk is managed, how can technological andorganizational complexities interact, what are the impediments foreffective learning and how large, medium, and small organizationscan, and in fact must, increase their resilience. Managers,organizational consultants, expert professionals, and trainingspecialists; particularly those in high risk organizations, mayfind the issues covered in the book relevant to their daily workand a potential catalyst for thought and action. A timely analysis of the Columbia disaster and theorganizational lessons that can be learned from it. Includes contributions from those involved in the InvestigationBoard report into the incident. Tackles vital issues such as the role of time pressures andgoal conflict in decision making, and the impediments for effectivelearning. Examines how organizational risk is managed and howtechnological and organizational complexities interact. Assesses how large, medium, and small organizations can, and infact must, increase their resilience. Questions our eagerness to embrace new technologies, yetreluctance to accept the risks of innovation. Offers a step by step understanding of the complex factors thatled to disaster.

Routledge International Handbook of Social and Environmental Change - Stewart Lockie 2013-10-30
Today, the risks associated with global environmental change and the dangers of extreme climatic and geological events remind us of humanity’s dependence on favourable environmental conditions. Our relationships with the landscapes and ecologies that we are a part of, the plants and animals that we share them with, and the natural resources that we extract, lie at the heart of contemporary social and political debates. It is no longer possible to understand key social scientific concerns without at the same time also understanding contemporary patterns of ecosystem change. The Routledge International Handbook of Social and Environmental Change reviews the major ways in which social scientists are conceptualizing more integrated perspectives on society and nature, from the global to local levels. The chapters in this volume, by international experts from a variety of disciplines, explore the challenges, contradictions and consequences of social–ecological change,

along with the uncertainties and governance dilemmas they create. The contributions are based around the themes of: Climate change, energy, and adaptation Urban environmental change and governance Risk, uncertainty and social learning (Re)assembling social-ecological systems With case studies from sectors across both developed and developing worlds, the Handbook illustrates the inter-connectedness of ecosystem health, natural resource condition, livelihood security, social justice and development. It will be of interest for students and scholars across the social sciences and natural sciences, as well as to those interested and engaged in environmental policy at all levels.

Exploring Resilience - Siri Wiig 2018-12-07

Resilience has become an important topic on the safety research agenda and in organizational practice. Most empirical work on resilience has been descriptive, identifying characteristics of work and organizing activity which allow organizations to cope with unexpected situations. Fewer studies have developed testable models and theories that can be used to support interventions aiming to increase resilience and improve safety. In addition, the absent integration of different system levels from individuals, teams, organizations, regulatory bodies, and policy level in theory and practice imply that mechanisms through which resilience is linked across complex systems are not yet well understood. Scientific efforts have been made to develop constructs and models that present relationships; however, these cannot be characterized as sufficient for theory building. There is a need for taking a broader look at resilience practices as a foundation for developing a theoretical framework that can help improve safety in complex systems. This book does not advocate for one definition or one field of research when talking about resilience; it does not assume that the use of resilience concepts is necessarily positive for safety. We encourage a broad approach, seeking inspiration across different scientific and practical domains for the purpose of further developing resilience at a theoretical and an operational level of relevance for different high-risk industries. The aim of the book is twofold: 1. To explore different approaches for operationalization of resilience across scientific disciplines and system levels. 2. To create a theoretical foundation for a resilience framework across scientific disciplines and system levels. By presenting chapters from leading international authors representing different research disciplines and practical fields we develop suggestions and inspiration for the research community and practitioners in high-risk industries. This book is Open Access under a CC-BY licence.

Why Not Jail? - Rena Steinzor 2015

This book analyzes five industrial catastrophes that have killed or sickened consumers and workers or caused irrevocable harm to the environment.

Well Control for Completions and Interventions - Howard Crumpton 2018-04-04

Well Control for Completions and Interventions explores the standards that ensure safe and efficient production flow, well integrity and well control for oil rigs, focusing on the post-Macondo environment where tighter regulations and new standards are in place worldwide. Too many training facilities currently focus only on the drilling side of the well’s cycle when teaching well control, hence the need for this informative guide on the topic. This long-awaited manual for engineers and managers involved in the well completion and intervention side of a well’s life covers the fundamentals of design, equipment and completion fluids. In addition, the book covers more important and distinguishing components, such as well barriers and integrity envelopes, well kill methods specific to well completion, and other forms of operations that involve completion, like pumping and stimulation (including hydraulic fracturing and shale), coiled tubing, wireline, and subsea intervention. Provides a training guide focused on well completion and intervention Includes coverage of subsea and fracturing operations Presents proper well kill procedures Allows readers to quickly get up-to-speed on today’s regulations post-Macondo for well integrity, barrier management and other critical operation components

To Err Is Human - Institute of Medicine 2000-03-01

Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from

motor vehicle accidents, breast cancer, or AIDSâ€"three causes that receive far more public attention. Indeed, more people die annually from medication errors than from workplace injuries. Add the financial cost to the human tragedy, and medical error easily rises to the top ranks of urgent, widespread public problems. To Err Is Human breaks the silence that has surrounded medical errors and their consequenceâ€"but not by pointing fingers at caring health care professionals who make honest mistakes. After all, to err is human. Instead, this book sets forth a national agendaâ€"with state and local implicationsâ€"for reducing medical errors and improving patient safety through the design of a safer health system. This volume reveals the often startling statistics of medical error and the disparity between the incidence of error and public perception of it, given many patients' expectations that the medical profession always performs perfectly. A careful examination is made of how the surrounding forces of legislation, regulation, and market activity influence the quality of care provided by health care organizations and then looks at their handling of medical mistakes. Using a detailed case study, the book reviews the current understanding of why these mistakes happen. A key theme is that legitimate liability concerns discourage reporting of errorsâ€"which begs the question, "How can we learn from our mistakes?" Balancing regulatory versus market-based initiatives and public versus private efforts, the Institute of Medicine presents wide-ranging recommendations for improving patient safety, in the areas of leadership, improved data collection and analysis, and development of effective systems at the level of direct patient care. To Err Is Human asserts that the problem is not bad people in health careâ€"it is that good people are working in bad systems that need to be made safer. Comprehensive and straightforward, this book offers a clear prescription for raising the level of patient safety in American health care. It also explains how patients themselves can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital administrators, medical educators and students, health caregivers, health journalists, patient advocatesâ€"as well as patients themselves. First in a series of publications from the Quality of Health Care in America, a project initiated by the Institute of Medicine

Contemporary Ergonomics and Human Factors 2015 - Sarah Sharples 2018-06-08

Ergonomics and human factors is the discipline concerned with the application of scientifc knowledge to improve people‘s interaction with products, systems and environments. This book presents the proceedings of the international conference, Ergonomics and Human Factors 2015, the 29th year in which a volume in the Contemporary Ergonomics series has

Disastrous Decisions - Andrew Hopkins 2012-05

Law and the Management of Disasters - Alexia Herwig 2016-12-01

Disasters raise serious challenges for contemporary legal orders: they demand significant management, but usually amidst massive disruption to the normal functioning of state authority and society. When dealing with disasters, law has traditionally focused on contingency planning and recovery. More recently, however, ‘resilience’ has emerged as a key concept in effective disaster management policies and strategies, aiming at minimising the impact of events, so that the normal functioning of society and the state can be preserved. This book analyses the contribution of law to resilience building by looking at law’s role in the different phases of the disaster regulatory process: risk assessment, risk management, emergency intervention, and recovery. More specifically, it addresses how law can effectively contribute to resilience-oriented distaster management policies, and what legal instruments can support effective resilience-building.

Disastrous High-Tech Decision Making - Frederick F. Lighthall 2016-03-31

Disastrous High-Tech Decision Making: From Disasters to Safety offers new insights for scholars studying management, decision making, cognition in the wild, and safety in the context of imperatives to continue operations. This book takes you inside the deliberations and action that

have produced high-tech disasters in safetycritical enterprises. From primary data and analyses never before considered in scholarly assessments of the Challenger disaster, Frederick F. Lighthall, Professor Emeritus at The University of Chicago, applies the insights of macroergonomics, social psychology, naturalistic decision making, and legal argumentation to this expanded set of documents and data. He argues that the Challenger case represents a prototype of decision making that arises whenever a possibly threatening change in operating conditions becomes evident. In this situation, inevitable in boundarypushing enterprises, four generic decision-making pitfalls await engineers and managers who must decide whether continuing to operate is safe or dangerous. These four decision-making vulnerabilities are also evident, Lighthall argues, in the decision situations of other high-tech disasters both similar (the Columbia shuttle) and dissimilar (Deepwater Horizon oil spill disaster). In Part I of the book Lighthall traces decision participants' chart-by-chart deliberations and argument about whether proceeding with the Challenger's launch would be dangerous. Part II analyzes from contrasting perspectives the dynamics revealed in the narrative. Lighthall's analysis ends by examining the demanding changes in outlook, knowledge disciplines, and learning processes required for safety to compete with the production imperatives of high-tech enterprises operating in unforgiving environments. This book is a must read both for students of management and of engineering who may find themselves working in these high-tech settings, and for managers and engineers who now work in these settings.

Noise - Daniel Kahneman 2021-05-18

From the Nobel Prize-winning author of Thinking, Fast and Slow and the coauthor of Nudge, a revolutionary exploration of why people make bad judgments and how to make better ones—"a tour de force" (New York Times). Imagine that two doctors in the same city give different diagnoses to identical patients—or that two judges in the same courthouse give markedly different sentences to people who have committed the same crime. Suppose that different interviewers at the same firm make different decisions about indistinguishable job applicants—or that when a company is handling customer complaints, the resolution depends on who happens to answer the phone. Now imagine that the same doctor, the same judge, the same interviewer, or the same customer service agent makes different decisions depending on whether it is morning or afternoon, or Monday rather than Wednesday. These are examples of noise: variability in judgments that should be identical. In Noise, Daniel Kahneman, Olivier Sibony, and Cass R. Sunstein show the detrimental effects of noise in many fields, including medicine, law, economic forecasting, forensic science, bail, child protection, strategy, performance reviews, and personnel selection. Wherever there is judgment, there is noise. Yet, most of the time, individuals and organizations alike are unaware of it. They neglect noise. With a few simple remedies, people can reduce both noise and bias, and so make far better decisions. Packed with original ideas, and offering the same kinds of research-based insights that made Thinking, Fast and Slow and Nudge groundbreaking New York Times bestsellers, Noise explains how and why humans are so susceptible to noise in judgment—and what we can do about it.

Contracting and Safety - Jan Hayes 2022-03-11

This open access book examines the increase in outsourcing, contracting and subcontracting as ways of organising work. It explores the impact of these employment arrangements on public safety, particularly when they are linked to complex supply networks in a range of engineering industries including oil and gas, nuclear power and aviation. The brief provides practical recommendations on how best to manage arrangements that target short-term profitability and also maintain excellence in long-term safety outcomes. The brief is a source of advice for organisations on how to maximise the benefits and minimise long-term system reliability issues that can be introduced by contracting and outsourcing, rather than assuming it to be a wholly negative or positive practice. Contracting and Safety comprises qualitative, empirical studies focusing on high-reliability organisation. As such, this brief provides a rich picture of the experience of working in complex supply chains. It will be of interest to researchers in industrial safety, as well as safety

professionals and project managers within engineering industries.

Macondo Well Deepwater Horizon Blowout - National Research Council 2012-03-02

The blowout of the Macondo well on April 20, 2010, led to enormous consequences for the individuals involved in the drilling operations, and for their families. Eleven workers on the Deepwater Horizon drilling rig lost their lives and 16 others were seriously injured. There were also enormous consequences for the companies involved in the drilling operations, to the Gulf of Mexico environment, and to the economy of the region and beyond. The flow continued for nearly 3 months before the well could be completely killed, during which time, nearly 5 million barrels of oil spilled into the gulf. Macondo Well-Deepwater Horizon Blowout examines the causes of the blowout and provides a series of recommendations, for both the oil and gas industry and government regulators, intended to reduce the likelihood and impact of any future losses of well control during offshore drilling. According to this report, companies involved in offshore drilling should take a "system safety" approach to anticipating and managing possible dangers at every level of operation -- from ensuring the integrity of wells to designing blowout preventers that function under all foreseeable conditions-- in order to reduce the risk of another accident as catastrophic as the Deepwater Horizon explosion and oil spill. In addition, an enhanced regulatory approach should combine strong industry safety goals with mandatory oversight at critical points during drilling operations. Macondo Well-Deepwater Horizon Blowout discusses ultimate responsibility and accountability for well integrity and safety of offshore equipment, formal system safety education and training of personnel engaged in offshore drilling, and guidelines that should be established so that well designs incorporate protection against the various credible risks associated with the drilling and abandonment process. This book will be of interest to professionals in the oil and gas industry, government decision makers, environmental advocacy groups, and others who seek an understanding of the processes involved in order to ensure safety in undertakings of this nature.

Risk Governance of Offshore Oil and Gas Operations - Preben Hempel Lindøe 2014

This book evaluates and compares risk regulation and safety management for offshore oil and gas operations in the United States, United Kingdom, Norway, and Australia. It provides an interdisciplinary approach with legal, technological, and sociological perspectives on their efforts to assess and prevent major accidents and improve safety performance offshore. Presented in three parts, the volume begins with a review of the technical, legal, behavioral, and sociological factors involved in designing, implementing, and enforcing a regulatory regime for industrial safety. It then evaluates the four regulatory regimes that encompass the cultural, legal, and other contextual factors that influence their design and implementation, along with their reliance on industrial expertise and standards and the use of performance indicators. The final section presents an assessment of the resilience of the Norwegian regime and its capacity to keep pace with new technologies and emerging risks, respond to near miss incidents, encourage safety culture, incorporate vested rights of labor, and perform inspection and self-audit functions. This book is highly relevant for those in government, business, academia, and elsewhere in civil society who are involved in offshore safety issues, including regulatory authorities and industrial safety professionals.

Process Safety Management and Human Factors - Waddah S. Ghanem Al Hashmi 2020-11-13

Process Safety Management and Human Factors: A Practitioner's Experiential Approach addresses human factors in process safety management (PSM) from a reflective learning approach. The book is written by engineers and technical specialists who spent the last 15-20 years of their professional career looking at behavioral-based safety, human factor research, and safety culture development in organizations. It is a fundamental resource for operational, technical and safety managers in high-risk industries who need to focus on personal and occupational safety management to prevent safety accidents. Real-life examples illustrate how a good, effective understanding of human factors

supports PSM and positive impacts on accident occurrence. Covers the evolution and background of process safety management Shows how to integrate and augment process safety management with operational excellence and health, safety and environment management systems Focuses on human factors in process safety management Includes many real-life case studies from the collective experience of the book's authors

Disastrous Decisions - Andrew Hopkins 2012

Takes the reader into the realm of human and organisational factors that contributed to the Deepwater Horizon disaster in 2010. This event resulted in the loss of 11 lives, the sinking of the rig and untold damage to the environment. It is important to know what people did, but even more important to know why they did it. Hopkins from ANU.

Failure to Learn The BP Texas City Refinery disaster - Andrew Hopkins 2015

Safety Science Research - Jean-Christophe Le Coze 2019-08-13

Safety Science Research: Evolution, Challenges and New Directions provides a unique perspective into the latest developments of safety science by putting together, for the first time, a new generation of authors with some of the pioneers of the field. Forty years ago, research traditions were developed, including, among others, high-reliability organisations, cognitive system engineering or safety regulations. In a fast-changing world, the new generation introduces, in this book, new disciplinary insights, addresses contemporary empirical issues, develops new concepts and models while remaining critical of safety research practical ambitions. Their ideas are then reflected and discussed by some of the pioneers of safety science. Features Allows the reader to discover how contemporary safety issues are currently framed by a new generation of researchers, brought together for the first time Includes an introduction and guide to the development of safety science over the last four decades Features an extraordinary collection of expert contributors, including pioneers of safety research, reflecting the evolution of the discipline and offering insightful commentary on the current and future state of the field Serves as an invaluable reference and guide for safety professionals and students from any established disciplines such as sociology, engineering, psychology, political science or management as well as dedicated safety programmes Some figures in the eBook are in colour

Energy, Risk and Governance - Catherine Mei Ling Wong 2017-12-09

This book is about how energy, risk and governance are intertwined in the development of the nuclear industry in India and its relationship with the Indian public. It provides a rare insider-view of how the nuclear establishment thinks about risk, contrasted with public understandings of nuclear risk. Energy, Risk and Governance presents a nuanced picture of why nuclear energy is still considered by some as a rational choice. This is in spite of its risks, the ambiguities in both expert and public risk perceptions, and the internal reflexivities that have emerged within the nuclear establishment as a result of the Fukushima-Daiichi disaster that is absent from public discourse. The insights in this book are not unique to India and similar observations can likely be made across the global nuclear industry. Reflecting on what this means for risk governance in practice, this book proposes practical suggestions and some tools that practitioners in the nuclear industry can use in public engagement, risk communication and deliberation at various stages of decision-making.

Risky Rewards - Andrew Hopkins 2015-02-28

Financial incentives have long been used to try to influence professional values and practices. Recent events including the global financial crisis and the BP Texas City refinery disaster have been linked to such incentives, with commentators calling for a critical look at these systems given the catastrophic outcomes. Risky Rewards engages with this debate, particularly in the context of the present and potential role of incentives to manage major accident risk in hazardous industries. It examines the extent to which people respond to financial incentives, the potential for perverse consequences, and approaches that most appropriately focus attention on major hazard risk. The book is based in part on an empirical study of bonus arrangements in eleven companies operating in hazardous industries, including oil, gas, chemical and mining.

Inside Hazardous Technological Systems - Kenneth Pettersen Gould 2021-07-19

This book explores the challenges, opportunities, applications, and implications of applying qualitative research to critical questions of research and practice in the field of organizational risk and safety. The book brings together a diverse perspective to explore the practice of conducting qualitative research as well as to debate the quality of research and knowledge, drawing on a range of different perspectives and traditions. It offers novel and innovative developments in data collection and data analysis methods and tools that can be applied to safety, risk, and accident analysis in complex systems. It also will present practical issues associated with data access and empirical research in challenging and high-stakes environments. This book will provide academics, researchers, students, and professionals in the fields of safety, accident analysis, and risk with a broad-range and expert guide to the key issues and debates in the field, as well as a set of exemplary cases and reflective narratives from leading researchers in the field.

Operational Decision-making in High-hazard Organizations - Jan Hayes 2017-09-18

This book takes a fresh look at safety decision-making by documenting and examining stories told by front-line managers in three different high-hazard industries: a chemical plant, a nuclear power station and an air-navigation service provider. From Piper Alpha to Deepwater Horizon, accident analysis has stressed the importance of excellent decision-making by those in charge out in the field. Organizations rely critically on the judgement and experience of such senior operations personnel and yet these qualities are undervalued in a business environment that emphasises documentation and measurement. Whilst operational managers are guided by rules, they also draw on their own long experience and can formulate a situation-specific 'line in the sand' to apply the experience of the operating team to complex, real-world situations that rule writers may not have foreseen. This volume refocuses our attention on the people who make these important decisions and the organizational processes that support the best choices. Jan Hayes uses her multi-disciplinary experience to draw together an account of safety decision-making that is both technically robust and yet accessible to academics, practitioners and regulators alike. Readers will see that the stories retold in this book provide a way for operational managers to share their knowledge, experience and expertise - with each other and with us.

Advances in Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries - Sacit M. Cetiner 2016-07-26

This book addresses human factors research in energy, an emphasis on human factors applications in design, construction, and operation of nuclear, electrical power generation, and oil and gas assets. It discusses advanced strategies in the optimization of human and environmental performance, as well as personal and process safety. The book covers a wealth of topics in design and operation management of both offshore and onshore facilities, including design of control rooms, front-end engineering design (FEED), criticality analysis, offshore transport, human contributions to accidents, cognitive bias in decision making, safety-critical human tasks, and many others. Based on the AHFE 2016 International Conference on Human Factors in Energy, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, the book fills an important gap in the current literature, providing readers with state-of-the-art knowledge in human factors best-practice approaches across different types of industries and energy applications.

Catastrophic Incidents - Trevor J. Hughes 2022-12-21

This interesting book offers an analysis of man-made catastrophes and asks why they continue to occur. 87 catastrophes or near-catastrophes, including high profile cases such as the Bhopal gas disaster, Grenfell Tower, Shoreham Air Show crash, Brumadinho dam collapse and Fukushima Daiichi, are described together with the reasons why they occurred and why over 50 different safety management approaches and techniques failed to prevent them. Featuring 63 eye opening stories from the author's own personal experience and over 200 pitfalls in safety management approaches, this title is illustrated by 24 hypothetical cases in which the reader is asked to consider the approach they would take.

Safety management techniques discussed include operating practices, personnel selection and emergency response. Safety management approaches including safety governance in organisations, along with the role of government and local authorities using the instruments of the law are extensively discussed. The work concludes with imaginative and creative ways forward with the aim to make considerable progress and to potentially eliminate man-made catastrophes for good. This title will be an ideal read for safety managers and engineers, community leaders in civic duties or labour union roles and professionals tasked with stopping and mitigating the impacts of man-made catastrophes, along with non-technical readers who are curious and concerned.

Strategic Safety Management in Construction and Engineering - Patrick X. W. Zou 2015-03-26

Although the construction and engineering sector makes important contributions to the economic, social, and environmental objectives of a nation, it has a notorious reputation for being an unsafe industry in which to work. Despite the fact that safety performance in the industry has improved, injuries and fatalities still occur frequently. To address this, the industry needs to evolve further by integrating safety into all decision making processes. Strategic Safety Management in Construction and Engineering takes a broad view of safety from a strategic decision making and management perspective with a particular focus on the need to balance and integrate ‘science’ and ‘art’ when implementing safety management. The principles covered here include the economics of safety, safety climate and culture, skills for safety, safety training and learning, safety in design, risk management, building information modelling, and safety research methods and the research-practice nexus. They are integrated into a strategic safety management framework which comprises strategy development, implementation, and evaluation. Practical techniques are included to apply the principles in the context of the construction and engineering industry and projects. Case studies are also provided to demonstrate the localised context and applications of the principles and techniques in practice.

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

Human Safety and Risk Management - A. Ian Glendon 2018-10-09

The third edition of a bestseller, Human Safety and Risk Management: A Psychological Perspective incorporates a decade of new research and development to provide you with a comprehensive and contemporary guide to the psychology of risk and workplace safety. A major enhancement is reflected in the new subtitle for the book, A Psychological Perspective, which highlights both the expertise of the authors and also confirms the predominantly psychological orientation of the revised text. New in the Third Edition: State-of-the-art theory reviews, research findings, and practical applications New chapter on impact that sensor technologies have on approaches to safety and risk in contemporary society Enhanced chapters on key issues around sensing danger, risk perception, error detection, safety culture, risk management, leadership, teams, and stress management This book discusses how people perceive and manage risks and how to make the workplace a safer place. It examines the influence of individual factors on safety, as well as team and organizational factors at work, from a psychological perspective. It also highlights changes in safety due to the changing workplace, globalization, and managing employees’ safety and

health beyond the workplace — a challenge that many organizations have yet to address. Reflecting current scientific research across a range of disciplines as it applies to human safety and risk management, this book helps you meet the challenges posed by the rapidly evolving workplace.

Human and Organisational Factors - Benoît Journé 2020-01-02

This open access book addresses several questions regarding the implementation of human and organisational factors (HOF) so that recent improvements in industrial safety can be built upon. It addresses sources of frustration in senior management with high expectations of operational recommendations and disquiet on the part of HOF specialists struggling to have an impact on high-level decision making. The brief explores these issues with an emphasis on examples and lessons learned based on the experience of its authors, who come from different academic disciplines and various industrial sectors such as oil and gas, energy and transportation. It then offers some ways forward for a better consideration of HOF in hazardous companies with a view of promoting safety and facing challenges in a rapidly changing world.

Managing the Risk of Offshore Oil and Gas Accidents - Günther Handl 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.

The Human Contribution - J. T. Reason 2008

The Human Contribution is vital reading for all professionals in high-consequence environments and for managers of any complex system. The book draws its illustrative material from a wide variety of hazardous domains, with the emphasis on healthcare reflecting the author's focus on patient safety over the last decade. All students of human factors - however seasoned - will also find it an invaluable and thought-provoking read.

The Field Guide to Human Error Investigations - Sidney Dekker 2017-11-01

This title was first published in 2002: This field guide assesses two views of human error - the old view, in which human error becomes the cause of an incident or accident, or the new view, in which human error is merely a symptom of deeper trouble within the system. The two parts of this guide concentrate on each view, leading towards an appreciation of the new view, in which human error is the starting point of an investigation, rather than its conclusion. The second part of this guide focuses on the circumstances which unfold around people, which causes their assessments and actions to change accordingly. It shows how to "reverse engineer" human error, which, like any other componant, needs to be put back together in a mishap investigation.

Social Science and Sustainability - Iain Walker 2017-06-01

Sustainability policies shape the ways that society and the economy interact with the environment, natural resources and ecosystems, and address issues such as water, energy and food security, and climate change. These policies are complex and are, at times, obscured by contestation, uncertainty and sometimes ignorance. Ultimately, sustainability problems are social problems and they need to be addressed through social and policy change. Social Science and Sustainability draws on the wide-ranging experience of CSIRO’s social scientists in the sustainability policy domain. These researchers have extensive experience in addressing complex issues of society–nature relationships, usually in interdisciplinary collaboration with natural scientists. This book describes some of the evidence-based concepts, frameworks and methodologies they have developed, which may guide a transition to sustainability. Contributions range from exploring ways to enhance livelihoods and alleviate poverty, to examining Australians’ responses to climate change, to discussing sociological perspectives on sustainability and how to make policy relevant. Researchers, policy-makers and decision-makers around the globe will find this book a

valuable and thought-provoking contribution to the sustainability literature. It is also suited to academics and students in postgraduate-level courses in social sciences and sustainability, or in courses in applied sociology, applied social psychology and other applied social sciences.

Principles of Forensic Engineering Applied to Industrial Accidents - Luca Fiorentini 2019-01-29

An introductory text on the investigation of industrial accidents Forensic engineering should be seen as a rigorous approach to the discovery of root causes that lead to an accident or near-miss. The approach should be suitable to identify both the immediate causes as well as the underlying factors that affected, amplified, or modified the events in terms of consequences, evolution, dynamics, etc., as well as the contribution of an eventual "human error". This book is a concise and introductory volume to the forensic engineering discipline which helps the reader to recognize the link among those important, very specialized aspects of the same problem in the global strategy of learning from accidents (or near-misses). The reader will benefit from a single point of access to this very large, technical literature that can be only correctly understood with the right terms, definitions, and links in mind. Keywords: Presents simple (real) cases, as well as giving an overview of more complex ones, each of them investigated within the same framework; Gives the readers the bibliography to access more in-depth specific aspects; Offers an overview of the most commonly used methodologies and techniques to investigate accidents, including the evidence that should be collected to define the cause, dynamics and responsibilities of an industrial accident, as well as the most appropriate methods to collect and preserve the evidence through an appropriate chain of security. Principles of Forensic Engineering Applied to Industrial Accidents is essential reading for researchers and practitioners in forensic engineering, as well as graduate students in forensic engineering departments and other professionals.

Flirting with Disaster - Marc S. Gerstein 2008

Analyzes major disasters in recent history and explains how their deep financial, emotional, and historical impacts could have been avoided.

Case Studies in Organizational Communication - Steve May 2012-01-20

The Second Edition of Case Studies in Organizational Communication: Ethical Perspectives and Practices, by Dr. Steve May, integrates ethical theory and practice to help strengthen readers' awareness, judgment, and action in organizations by exploring ethical dilemmas in a diverse range of well-known business cases.

Handbook of Safety Principles - Niklas Möller 2018-01-04

Presents recent breakthroughs in the theory, methods, and applications of safety and risk analysis for safety engineers, risk analysts, and policy makers Safety principles are paramount to addressing structured handling of safety concerns in all technological systems. This handbook captures and discusses the multitude of safety principles in a practical and applicable manner. It is organized by five overarching categories of safety principles: Safety Reserves; Information and Control; Demonstrability; Optimization; and Organizational Principles and Practices. With a focus on the structured treatment of a large number of safety principles relevant to all related fields, each chapter defines the principle in question and discusses its application as well as how it relates to other principles and terms. This treatment includes the history, the underlying theory, and the limitations and criticism of the principle. Several chapters also problematize and critically discuss the very concept of a safety principle. The book treats issues such as: What are safety principles and what roles do they have? What kinds of safety principles are there? When, if ever, should rules and principles be disobeyed? How do safety principles relate to the law; what is the status of principles in different domains? The book also features: • Insights from leading international experts on safety and reliability • Real-world applications and case studies including systems usability, verification and validation, human reliability, and safety barriers • Different taxonomies for how safety principles are categorized • Breakthroughs in safety and risk science that can significantly change, improve, and inform important practical decisions • A structured treatment of safety

principles relevant to numerous disciplines and application areas in industry and other sectors of society • Comprehensive and practical coverage of the multitude of safety principles including maintenance optimization, substitution, safety automation, risk communication, precautionary approaches, non-quantitative safety analysis, safety culture, and many others The Handbook of Safety Principles is an ideal reference and resource for professionals engaged in risk and safety analysis and research. This book is also appropriate as a graduate and PhD-level textbook for courses in risk and safety analysis, reliability, safety engineering, and risk management offered within mathematics, operations research, and engineering departments. NIKLAS MÖLLER, PhD, is Associate Professor at the Royal Institute of Technology in Sweden. The author of approximately 20 international journal articles, Dr. Möller's research interests include the philosophy of risk, metaethics, philosophy of science, and epistemology. SVEN OVE HANSSON, PhD, is Professor of Philosophy at the Royal Institute of Technology. He has authored over 300 articles in international journals and is a member of the Royal Swedish Academy of Engineering Sciences. Dr. Hansson is also a Topical Editor for the Wiley Encyclopedia of Operations Research and Management Science. JAN-ERIK HOLMBERG, PhD, is Senior Consultant at Risk Pilot AB and Adjunct Professor of Probabilistic Riskand Safety Analysis at the Royal Institute of Technology. Dr. Holmberg received his PhD in Applied Mathematics from Helsinki University of Technology in 1997. CARL ROLLENHAGEN, PhD, is Adjunct Professor of Risk and Safety at the Royal Institute of Technology. Dr. Rollenhagen has performed extensive research in the field of human factors and MTO (Man, Technology, and Organization) with a specific emphasis on safety culture and climate, event investigation methods, and organizational safety assessment.

Advances in Construction Safety - N. A. Siddiqui 2022-12-02

This book covers the details of computer-aided tools & techniques for improving work culture and minimizing accidents. The construction industry has been considered for employing the highest number of workmen but at the same time, it is also known as a poorly organized sector because of peculiarity in construction. Since construction project activity keeps changing on an hourly basis, it becomes difficult to manage the safety of workers or workplace and therefore, it stands as the second accident-prone industry. Several tools and techniques are introduced in controlling construction accidents concerning time and improvements are recorded. This book has briefly covered various challenges encountered, gaps in implementation, technological developments, and various methods/techniques to reduce construction accidents and highlights of research need for overall improvement of safety. This book is essentially helpful for students, researchers, faculty, and industry professionals.

Risk Communication and Miscommunication - Carolyn Boiarsky 2016-09-01

Effective communication can help prevent or minimize damage from environmental disasters. In Risk Communication and Miscommunication, Carolyn Boiarsky teaches students, technical writers, public affairs officers, engineers, scientists, and governmental officials the writing and communication skills necessary for dealing with environmental and technological problems that could lead to major crises. Drawing from research in rhetoric, linguistics, technical communication, educational psychology, and web design, Boiarsky provides a new way to look at risk communication. She shows how failing to consider the readers' needs and the rhetorical context in which a document is read can be catastrophic and how anticipating those needs can enhance effectiveness and prevent disaster. She examines the communications and miscommunications of original e-mails, memos, and presentations about various environmental disasters, including the Columbia space shuttle breakup and the BP/Deepwater Horizon oil rig explosion, and successes, such as the Enbridge pipeline expansion and the opening of the Mississippi Spillway, offering recommendations for effective communication. Taking into account the growing need to communicate complex and often controversial issues across vast geographic and cultural spaces with an ever-expanding array of electronic media, Risk Communication and Miscommunication provides strategies for clear

communication of data, ideas, and procedures to varied audiences to prevent or minimize damage from environmental incidents.

The Chernobyl, Fukushima Daiichi and Deepwater Horizon Disasters from a Natural Science and Humanities Perspective - Volker Hoensch 2022-08-02

In our everyday imaginations we use the laws of nature with their tremendous possibilities of technical progress for the benefit of mankind. The three catastrophes of Chernobyl (26 April 1986), Fukushima Daichii (11 March 2011) and in the Gulf of Mexico, explosion of the drilling platform Deepwater Horizon (20 April 2010), have shaken this world view. Who directed this development? Is it a matter of human error or technical failure? For the answer, approaches from the natural sciences and the humanities are presented.

A New Social Ontology of Government - Daniel Little 2020-07-07

This book provides a better understanding of some of the central puzzles of empirical political science: how does “government” express will and purpose? How do political institutions come to have effective causal powers in the administration of policy and regulation? What accounts for both plasticity and perseverance of political institutions and practices? And how are we to formulate a better understanding of the persistence of dysfunctions in government and public administration – failures to achieve public goods, the persistence of self-dealing behavior by the actors of the state, and the apparent ubiquity of corruption even within otherwise high-functioning governments?