

Incident Investigation Bp

The human element is the principle cause of incidents and accidents in all technology industries; hence it is evident that an understanding of the interaction between humans and technology is crucial to the effective management of risk. Despite this, no tested model that explicitly and quantitatively includes the human element in risk prediction is currently available. Managing Risk: the Human Element combines descriptive and explanatory text with theoretical and mathematical analysis, offering important new concepts that can be used to improve the management of risk, trend analysis and prediction, and hence affect the accident rate in technological industries. It uses examples of major accidents to identify common causal factors, or “echoes”, and argues that the use of specific experience parameters for each particular industry is vital to achieving a minimum error rate as defined by mathematical prediction. New ideas for the perception, calculation and prediction of risk are introduced, and safety management is covered in depth, including for rare events and “unknown” outcomes Discusses applications to multiple industries including nuclear, aviation, medical, shipping, chemical, industrial, railway, offshore oil and gas; Shows consistency between learning for large systems and technologies with the psychological models of learning from error correction at the personal level; Offers the expertise of key leading industry figures involved in safety work in the civil aviation and nuclear engineering industries; Incorporates numerous fascinating case studies of key technological accidents. Managing Risk: the Human Element is an essential read for professional safety experts, human reliability experts and engineers in all technological industries, as well as risk analysts, corporate managers and statistical analysts. It is also of interest to professors, researchers and postgraduate students of reliability and safety engineering, and to experts in human performance. “...congratulations on what appears to be, at a high level of review, a significant contribution to the literature...I have found much to be admired in (your) research” Mr. Joseph Fragola - Vice President of Valador Inc. “The book is not only technically informative, but also attractive to all concerned readers and easy to be comprehended at various level of educational background. It is truly an excellent book ever written for the safety risk managers and analysis professionals in the engineering community, especially in the high reliability organizations...” Dr Feng Hsu, Head of Risk Assessment and Management, NASA Goddard Space Flight Center “I admire your courage in confronting your theoretical ideas with such diverse, ecologically valid data, and your success in capturing a major trend in them....I should add that I find all this quite inspiringThe idea that you need to find the right measure of accumulated experience and not just routinely used calendar time makes so much sense that it comes as a shock to realize that this is a new idea”, Professor Stellan Ohlsson, Professor of Psychology, University of Illinois at Chicago

This symposium focuses on making the best use of current safety knowledge and avoiding complacency in the chemical and process industries, applying knowledge to emerging industries, and ensuring lessons learned in the old industries are transferred to the new so that the same mistakes are not made again.

On 20 April 2010, a blowout of BP's Macondo well in the Gulf of Mexico led to the deaths of 11 workers on Transocean's Deepwater Horizon drilling rig, and the release of an estimated 4.9 million barrels of oil. The European Commission called for a moratorium but the UK government decided its regulatory controls were fit for purpose.

However a full review of the oil and gas environmental regulatory regime would be undertaken. The Committee believes that the UK has high regulatory standards - as exemplified by the Safety Case regime that was set up in response to the 1988 Piper Alpha tragedy in 1988. The blowout in the Gulf of Mexico could have been prevented if the last-line of defence - the blind shear ram on the blowout preventer had activated and crushed the drill pipe. Given the importance of this equipment the committee recommends prescribing specifically that blowout preventers should have two blind shear rams and that simple, potential failures mustn't be left unchecked. The Committee also recommends that the Bly report conclusions, BP's internal investigation, be considered alongside observations of other companies involved. They believe that should an oil spill resulting from drilling activities occur in the UK there needs to be an absolute clarity as to the identity of the responsible party, and that liability legislation needs to ensure prompt compensation. They conclude that any calls for increased oversight of the UK offshore industry should be rejected in favour of multilateral approaches to regulation and oil spill response

"Lessons Learned" is a knowledge management approach for organizational learning and improved performance and productivity. However beneficial this approach is, few organizations have been able to implement the processes necessary for organizational success. Utilizing Evidence-Based Lessons Learned for Enhanced Organizational Innovation and Change links the theoretical foundation of the “lessons learned” approach with current tools and evidence-based research in support of organizational development. Outlining best practices and emerging research in organizational learning, this publication is ideal for project managers, academicians, researchers, and upper-level students looking to implement these processes into their project management cycle, particularly in the risk management and quality control processes.

Process Safety and Environmental Protection : what Do We Know? where are We Going?

Key Concepts and Practical Approaches

Human Rights Obligations of Business

How Companies Can Leverage Human Resources to Achieve Sustainable Growth

Management Obligations for Health and Safety

Failure to Learn The BP Texas City Refinery disaster

Hearing Before the Committee on Education and Labor, U.S. House of Representatives, One Hundred Tenth Congress, First Session, Hearing Held in Washington, DC, March 22, 2007

A world-renowned oceanographer discusses the scientific aspects of the BP oil-spill disaster, including the event's environmental impact. By the author of Song of the Blue Ocean. Reprint.

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

Trevor Kletz has had a huge impact on the way people viewed accidents and safety, particularly in the process industries. His ideas were developed from nearly 40 years working in the chemical industry. When he retired from the field, he shared his experience and ideas widely in more than 15 books. Trevor Kletz Compendium: His Process Safety Wisdom Updated for a New Generation introduces Kletz’s stories and ideas and brings them up to date in this valuable resource that equips readers to manage process safety in every workplace. Topics covered in this book include inherent safety, safety studies, human factors and design. Learn the lessons from past accidents to make sure they don't happen again. Focuses on understanding systems and learning from past accidents Describes approaches to safety that are practical and effective Provides an engineer’s perspective on safety This is the first textbook to address quantified risk assessment (QRA) as specifically applied to offshore installations and operations. As the first part of the two-volume updated and expanded fourth edition, it adds a new focus on the EU Offshore Safety Directive, and discusses the new perspective on risk from the Norwegian Petroleum Safety Authority, followed by new and updated international standards. New safety statistics for the Norwegian sectors are presented, as well as new case studies on international offshore accidents, such as the explosion on FPSO Sao Mateus in 2015, which involved 9 fatalities. Separate chapters analyse the main hazards for offshore structures: fire, explosion, collision, and falling objects, as well as structural and marine hazards. Risk mitigation and control are discussed, as well as how the results of quantitative risk assessment studies should be presented. The fourth edition presents updated hydrocarbon release statistics, together with new methods for modelling the risk from ignited hydrocarbon releases. There have been recent advances in the modelling of collision risk from passing and attending vessels, based on extensive research; these advances are described in detail, in addition to new developments in the safety of Dynamic Positioning vessels. In closing, the book provides updated statistics and lessons learned from accidents involving offshore helicopter transportation of personnel. The book offers a comprehensive reference guide for academics and students of marine/offshore risk assessment and management. It will also be of interest to professionals in the industry, as well as contractors, suppliers, consultants and regulatory authorities.

Guidelines for Investigating Process Safety Incidents

The Deepwater Horizon Incident

Principles, Modelling and Applications of QRA Studies

Managing Errors in Organizations

Organizational Accidents Revisited

BP Amoco Polymers, Inc., Augusta, Georgia ; March 13, 2001

Oilfield Survival Guide, Volume One: For All Oilfield Situations

Headquarters Air Education and Training Command released its Accident Investigation Board report from the aircraft accident involving an F-16C at Holloman Air Force Base, New Mexico, Jan. 31, 2017. Members of the board found that the cause of the mishap was pilot error. The investigation also identified that the instructor pilot's failed supervision and instruction were significant contributing factors for the mishap.The board determined that the incident, which left one civilian contractor deceased and one trainee injured, involved the use of training projectiles.The Accident Investigation Board President (AIB BP) found, by the preponderance of evidence, that the cause of the mishap was pilot error. The MP misperceived that the ground element's location was the intended target. The MP misinterpreted his instruments and failed to follow his on-board systems directing him to the proper target. The AIB BP found, by the preponderance of evidence, the MIP's failed supervision and instruction substantially contributed to the mishap. Specifically, that his failed cross-monitoring of the MP's performance during the MP's fatal strafing attack, his task misprioritization (focusing on coordinating and controlling other aircraft while the MP was performing the strafing attack), and his overconfidence, complacency and overaggressiveness during the mishap sortie substantially contributed to the mishap.

This is a print on demand edition of a hard to find publication. On April 20, 2010, a well control event allowed hydrocarbons to escape from the Macondo well onto Transocean's ¿Deepwater Horizon,¿ resulting in explosions and fire on the rig. This is the report of an internal BP incident invest. team. It presents an analysis of the events leading up to the accident, 8 key findings related to the causal chain of events, and recommend. to enable the prevention of a similar accident. The invest. team worked separately from any invest. conducted by other co. involved in the accident, and it did not review its analyses, conclusions or recommend. with any other co. or invest. team. Other invest., such as the U.S. Coast Guard, U.S. Justice Dept., and Bur. of Ocean Energy Mgmt., and the Pres. Nat. Comm. are ongoing.

This work presents the proceedings of the 19th in the Hazards Symposium Series, run by the Institution of Chemical Engineers North West Branch since 1960.

Effective process safety programs consist of three interrelated foundations—safety culture and leadership, process safety systems, and operational discipline—designed to prevent serious injuries and incidents resulting from toxic releases, fires, explosions, and uncontrolled reactions. Each of these foundations is important and one missing element can cause poor process safety performance. Process Safety: Key Concepts and Practical Approaches takes a systemic approach to the traditional process safety elements that have been identified for effective process safety programs. More effective process safety risk reduction efforts are achieved when these process safety systems, based on desired activities and results rather than by specific elements, are integrated and organized in a systems framework. This book provides key concepts, practical approaches, and tools for establishing and maintaining effective process safety programs to successfully identify, evaluate, and manage process hazards. It introduces process safety systems in a way that helps readers understand the purpose, design, and everyday use of overall process safety system requirements. Understanding what the systems are intended to achieve, understanding why they have been designed and implemented in a specific way, and understanding how they should function day-to-day is essential to ensure continued safe and reliable operations.

Accident Investigation Board Report on the 2017 Collision of A-10c Thunderbolt II Close Air Support Aircraft, Nellis Air Force Base, Nevada

Methods in Chemical Process Safety

Run to Failure: BP and the Making of the Deepwater Horizon Disaster

Process Safety Management and Human Factors

Utilizing Evidence-Based Lessons Learned for Enhanced Organizational Innovation and Change

Physical Security in the Process Industry

Theory with Applications

This book offers an innovative approach to analysing written texts, grounded in principles of semiotics. Envisaging whole news media representations as 'signs', and using the real-world example of the BP Deepwater Horizon crisis, the author demonstrates how business crises are constructed through language. Gravells identifies patterns of language which show a progression from one kind of 'current news' representation to a different kind of coverage. This coverage positions the crisis as having symbolic and conventional meaning within varied social contexts, including the arts, business and the environment. Using a wealth of examples from the BP story to illustrate her practical research approach, Gravells draws 'language maps' of different phases of the crisis representation, showing how an early 'iconic' phase of representation moves through an 'indexical' to a 'symbolic' phase, and projects a return to a 'naturalised icon'. This book will be of interest to researchers and students of semiotics, those exploring research methods and linguists with an interest in business and media communications.

Institutional Corrections Surveys history and current status of jails and various types of adult prisons with emphasis on punishment rationales, institutional programs and procedures, inmates' social structures, correctional officers, and contemporary issues.

Discusses how the CEO of British Petroleum, John Browne, helmed one of the greatest corporate comebacks in history only to have it fall apart due to deadly accidents and environmental crimes, culminating in the Deepwater Horizon disaster--

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.

The Deepwater Horizon Oil Blowout

Deepwater Horizon Accident Investigation Report

Process Safety

Guidelines for Investigating Chemical Process Incidents

BP's Pipeline Spills at Prudhoe Bay

Practice and Theory

Lessons for Improving Offshore Drilling Safety

Over the past two decades bioscience facilities worldwide have experienced multiple safety and security incidents, including many notable incidents at so-called "sophisticated facilities" in North America and Western Europe. This demonstrates that a system based solely on biosafety levels and security regulations may not be sufficient. Setting the stage for a subst managing the risks of working with biological agents in laboratories, Laboratory Biorisk Management: Biosafety and Biosecurity introduces the concept of biorisk management—a new paradigm that encompasses both laboratory biosafety and biosecurity. The book also provides laboratory managers and directors with the information and technical tools needed for it this new paradigm is a three-pronged, multi-disciplinary model of assessment, mitigation, and performance (the AMP model). The application of the methodologies, criteria, and guidance outlined in the book helps to reduce the risk of laboratories becoming the sources of infectious disease outbreaks. This is a valuable resource for those seeking to embrace and implement safety systems in their facilities and operations, including the biological research, clinical diagnostic, and production/manufacturing communities.

Deepwater Horizon Accident Investigation ReportDIANE Publishing

Save Money, Time, and Lives with the Real-World Oil & Gas Experience of Others. Learning the Hard Way in the Oilfield can Cost You Millions, sometimes Billions of Dollars in addition to Injury and Loss of Life. Cut Through the Noise to Focus on the Most Critical Aspects of Working in the Oil and Gas Business. Based on over 1,000 Oil and Gas Situations involving Drill Wireline, Coil Tubing, Snubbing, Running Tools, Welding, Production, Workover, Logging, Trucking, Geology, Land, Engineering, Resource Development, Executive Management and much, much more. Expand Your Value Creation Opportunities by Learning from the Real-World Experience of Others. Whether you work in the office or in the field, work as a Company Man, En Pusher, Roughneck, Geologist, Landman, Truck Driver, Frac Hand, Treater, Cementer, Lawyer, Flowback Hand, Welder, Geophysicist, Snubber, Pumper, Equipment Operator, Derrick Man, Mechanic, Petrophysicist, Roustabout, Manager, Director, VP, or Executive, consider adding Oilfield Survival Guide to your toolbox of knowledge. In other words, if you work hard for your business, this book is for you. The oil & gas industry is one of the most capital-intensive businesses today. As a result, mistakes/situations can be expensive, in addition to injury and loss of life. To prevent undesirable situations, Oilfield Survival Guide was created, based on over 1,000 oil & gas situations. The ultimate guide for all oil and gas situations:
? Tactics ? Pre Stories ? Train Wrecks ? Disaster Avoidance ? Court Cases ? Life Savings Skills ? Checklists ?Troubleshooting ? Problem Job Prevention ? Oilfield Survival Guide is the ultimate oil industry resource to help manage oilfield risk and avoid mistakes by increasing your oil and gas knowledge and intelligence, utilizing a variety of methods, including:
Tactics: Short and to the p risk and instill work principles to be successful in the oil industry, from the field to the office.
Short Stories: Experience from the mistakes of others.
Fatalities: Detailed analysis of oil and gas tragedies.
Court Cases: Jury trials, expert witness testimony, and legal opinions on a variety of oil and gas cases.
Procedures: Step-by-step process to create oilfield procedure multiple examples.
Operations Analysis: Oil and gas operations post-mortem, highlighting key learnings, practical knowledge, useful tips, and best practices.
Over 1,000 oil and gas situations analyzed to create Oilfield Survival Guide.

This book provides a valuable reference tool for technical and management personnel who lead or are a part of incident investigation teams. This second edition focuses on investigating process-related incidents with real or potential catastrophic consequences. It presents on-the-job information, techniques, and examples that support successful investigations. The techniques described in this book can also be applied when investigating other types of events such as reliability, quality, occupational health, and safety incidents. The accompanying CD-ROM contains the text of the book for portability as well as additional supporting tools for on-site reference and trouble shooting. Note: CD-ROM/DVD and other supplementary materials are not included in the eBook file.

Semiotics and Verbal Texts
Investigation Report : Thermal Decomposition Incident (3 Killed)
U. S. Air Force Aerospace Mishap Reports
Hazards XIX
The Measurement and Monitoring of Safety
Macondo: The Gulf Oil Disaster, Chief Counsel's Report, 2011
His Process Safety Wisdom Updated for a New Generation

This book provides a comprehensive treatment of investing chemical processing incidents. It presents on-the-job information, techniques, and examples that support successful investigations. Issues related to identification and classification of incidents (including near misses), notifications and initial response, assignment of an investigation team, preservation and control of an incident scene, collecting and documenting evidence, interviewing witnesses, determining what happened, identifying root causes, developing recommendations, effectively implementing recommendation, communicating investigation findings, and improving the investigation process are addressed in the third edition. While the focus of the book is investigating process safety incidents the methodologies, tools, and techniques described can also be applied when investigating other types of events such as reliability, quality, occupational health, and safety incidents.

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

Managing the Risks of Organizational Accidents introduced the notion of an 'organizational accident'. These are rare but often calamitous events that occur in complex technological systems operating in hazardous circumstances. They stand in sharp contrast to 'individual accidents' whose damaging consequences are limited to relatively few people or assets. Although they share some common causal factors, they mostly have quite different causal pathways. The frequency of individual accidents - usually lost-time injuries - does not predict the likelihood of an organizational accident. The book also elaborated upon the widely-cited Swiss Cheese Model. Organizational Accidents Revisited extends and develops these ideas using a standardized causal analysis of some 10 organizational accidents that have occurred in a variety of domains in the nearly 20 years that have passed since the original was published. These analyses provide the 'raw data' for the process of drilling down into the underlying causal pathways. Many contributing latent conditions recur in a variety of domains. A number of these - organizational issues, design, procedures and so on - are examined in close detail in order to identify likely problems before they combine to penetrate the defences-in-depth. Where the 1997 book focused largely upon the systemic factors underlying organizational accidents, this complementary follow-up goes beyond this to examine what can be done to improve the 'error wisdom' and risk awareness of those on the spot; they are often the last line of defence and so have the power to halt the accident trajectory before it can cause damage. The book concludes by advocating that system safety should require the integration of systemic factors (collective mindfulness) with individual mental skills (personal mindfulness).

In recent years, the safety management field has placed leadership and commitment at the center of effective workplace health and safety programs. At the same time, personal liability for workplace health and safety has increased, resulting in poor outcomes for individual managers. Discussing the minimum expectations that courts and tribunals have of managers, Management Obligations for Health and Safety examines the relationship between those expectations and effective safety performance. The book looks at safety management from the perspective of management obligations. What expectations are placed on managers at all levels of an organization to ensure that the workplace and systems of work are safe, and how are these expectations considered and analyzed by courts and public inquiries? As importantly, the book explores how management actions in relation to these obligations and expectations influence, positively or negatively, the safety performance of an organization. With examples drawn from legal and quasi-legal processes, one of the more enlightening and thought-provoking features of this book is the extensive use of cross examination taken from various proceedings. No one person reacts the same to finding him- or herself responsible for managing the aftermath of a death at work, or having to deal with the immediate pressure of being subject to interviews and investigation by safety regulators (much less the drawn-out experience of the legal process), but one of the most constant reactions is "Why didn't anybody tell me about this?" Stressing the importance of safety culture, this book details the true nature of the expectations that are placed on managers by virtue of their obligation to provide a safe workplace.

What Went Wrong? : Hearing Before the Subcommittee on Oversight and Investigations of the Committee on Energy and Commerce, House of Representatives, One Hundred Ninth Congress, Second Session, September 7, 2006

***Operational Safety Economics
Macondo Well Deepwater Horizon Blowout
International Contracting***

Accident Investigation Board Report on Mishap Involving F-16c at White Sands Missile Range, New Mexico, Due to Pilot Error, Killing a Civilian Contractor

Are the Minerals Management Service Regulations Doing the Job? : Oversight Hearing Before the Subcommittee on Energy and Mineral Resources of the Committee on Natural Resources, U.S. House of Representatives, One Hundred Eleventh Congress, Second Session, Thursday, June 17, 2010

This book, about international contracting and contract management, is written from the angle of the contractor and discussed from an international perspective. It comments on real-life cases, taken from various kinds of projects: infrastructural works (roads, bridges, tunnels, rail roads), wind- and sunfarms, oil and gas installations, such as platform works, and large buildings.The book is structured around the contracting cycle. Chapters include dealing with the role of the contractor in international contracting, the tender process, landing and negotiating the contract, types of contract, problems that may occur during project execution, project delivery, and handling guarantee claims.Written for those operating in the international contracting industry, the title assumes that the reader will have a basic understanding and knowledge of theories related to project management, construction engineering, business law and economics.Though not an academic book, due to its unique blend of practitioners' insight and academic theory, it can be taught at the graduate level. As most engineers are going to deal with contracts, this book is specifically recommended for engineering programs both at the graduate and postgraduate level. Lawyers will find the book useful to understand the business context in which their customers and/or colleagues work.

Physical Security in the Process Industry: Theory with Applications deals with physical security in the field of critical infrastructures where hazardous materials are a factor, along with the state-of-the-art thinking and modeling methods for enhancing physical security. The book offers approaches based on scientific insights, mainly addressing technical security. An innovative techniques is explained, including Bayesian networks, game-theory and petri-networks. Dealing with economic parameters and constraints and calculating the costs and benefits of security measures are also included. The book will be of interest to security (and safety) scientists, security managers and the public at large. Discusses how to use a scientific approach Explores how to take adequate add-on physical security measures Covers risk assessment tools and applications for practical use in the industry Demonstrates how to optimize security decisions using security models and approaches Considers economic aspects of security decisions

The first comprehensive reference work on error management, blending the latest thinking with state of the art industry practice on how organizations can learn from mistakes. Even today the reality of error management in some organizations is simple: "Don't make mistakes. And if you do, you're on your own unless you can blame someone else." But the reality is still often centered around quality control, with Six Sigma Black Belts seeking to eradicate errors with an unattainable goal of zero. But the best organizations have gone further. They understand that mistakes happen, be they systemic or human. They have realized that rather than being stigmatized, errors have to be openly discussed, analyzed and learned from. How Could This Happen? Jan Hagen collects insights from the leading academics in this field – covering the prerequisites for error reporting, such as psychological safety, organizational learning and innovation, safety management systems, and the influence of senior leadership behavior on the reporting climate. This research is complemented by the experiences of those who write about their professional experiences of error management. They provide not only ideas for implementation but also offer an inside view of highly demanding work environments, such as flight operations in the military and operating nuclear submarines. Every organization makes mistakes. Not every organization learns from them. It's the responsibility of the organization to create a culture and processes that enable that to happen. Hagen and his team show you how.

Describes how to make economic decisions regarding safety in the chemical and process industries Covers both technical risk assessment and economic aspects of safety decision-making Suitable for both academic researchers and practitioners in industry Addresses cost-benefit analysis for safety investments

second report of session 2010-11, Vol. 1: Report, together with formal minutes, oral and written evidence

Process Safety and Environmental Protection : Harnessing Knowledge, Challenging Complacency

Drawing Together Academic Evidence and Practical Experience to Produce a Framework for Safety Measurement and Monitoring

The Human Element

How Could This Happen?

UK deepwater drilling - implications of the Gulf of Mexico oil spill

Managing Risk

Oil and gas companies are repeatedly cited by regulatory organizations for poor training and maintenance on providing personal protective equipment to their refinery workers. Managers of refinery and petrochemical plants are responsible for instructing their workers with the types of equipment available, how to properly wear the equipment, how to properly care and maintain the equipment, and, most importantly, it's their responsibility to enforce these regulations and safety requirements. While there are many reference materials on the subject, most are too broad to apply directly to the unique and highly volatile atmosphere of an oil and gas operation. Personnel Protection and Safety Equipment for the Oil and Gas Industries answers the call for safety managers onsite as well as workers to understand all the safety equipment available specifically for the energy sector. Condensed into one convenient reference location, this training guide is designed to inform on several types of personnel protective clothing, firefighting protective clothing, respiratory protective devices available as well as many other types of protective equipment, including fall protection and vehicle safety belts and harnesses. Industry-specific examples, multiple illustrations, and a glossary of terms make Personnel Protection and Safety Equipment for the Oil and Gas Industries a must-have on every oil and gas operation. Know recommended US and international protective safety equipment regulations Learn the types, classes, and materials of safety and protective equipment specific to the oil and gas industry Gain knowledge on how to select, test, maintain, and store protective equipment properly

In recent years, the UN Human Rights Council has approved the 'Respect, Protect, and Remedy' Framework and endorsed the Guiding Principles on Business and Human Rights. These developments have been welcomed widely, but do they adequately address the challenges concerning the human rights obligations of business? This volume of essays engages critically with these important developments. The chapters revolve around four key issues: the process and methodology adopted in arriving at these documents; the source and justification of corporate human rights obligations; the nature and extent of such obligations; and the implementation and enforcement thereof. In addition to highlighting several critical deficits in these documents, the contributing authors also outline a vision for the twenty-first century in which companies have obligations to society that go beyond the responsibility to respect human rights.

HR Professional's guide to creating a strategically sustainableorganization Employees are central to creating sustainable organizations, yetthey are left on the sidelines in most sustainability initiativesalong with the HR professionals who should be helping to engage andenergize them. This book shows business leaders and HRprofessionals how to: motivate employees to create economic,environmental and social value; facilitate necessary culture,strategic and organizational change; embed sustainability into theemployee lifecycle; and strengthen existing capabilities anddevelop new ones necessary to support the transformation tosustainability. Talent, Transformation, and the Triple Bottom Line alsodemonstrates how leading companies are using sustainability tostrengthen core HR functions: to win the war for talent, tomotivate and empower employees, to increase productivity, and toenliven traditional HR-related efforts such as diversity, healthand wellness, community involvement and volunteerism. Incombination, these powerful benefits can help drive businessgrowth, performance, and results. The book offers strategies, policies, tools and specific actionsteps that business leaders and HR professionals can use to getinto the sustainability game or enhance their effortsdramatically Andrew Savitz is an expert in sustainability and has workedextensively with many organizations on sustainability strategy andimplementation; he and Karl Weber wrote The Triple BottomLine, one of the most successful books in the field Published in partnership with SHRM and with the cooperation ofthe World Business Council for Sustainable Development Forward by Edward Lawler III This book fills a gaping hole in both the HR and sustainabilityliterature by educating HR professionals about sustainability,sustainability professionals about HR, and business leaders abouthow to marry the two to accelerate progress on both fronts.

***Laboratory Biorisk Management
Personnel Protection and Safety Equipment for the Oil and Gas Industries
BP Amoco Polymers, Inc. Thermal Decomposition Incident
A Practical Approach focused on the Chemical and Process Industries
Prison and Jail Administration
A Sea in Flames
Hazards XX***