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Root Cause Analysis Following an Event at a Nuclear InstallationCommunication and LearningResilience Engineering in PracticeTapRooTPhilosophy of MindLees' Process Safety EssentialsLeadersSwitches for AppliancesRoot Cause Failure AnalysisThe Executive's DecisionBiodiversity in DrylandsCausal ModelsReal Business of ITInvestigating Patient SafetyRoot Cause Analysis, Second EditionInvestigating Human Error: Incidents, Accidents and Complex SystemsGuidelines for Auditing Process Safety Management SystemsTapRooTThe Siberian AlternativeSources and Transport of Inorganic Carbon in the Unsaturated Zone of KarstHuman Factors and Behavioural SafetyThe Root Cause Analysis HandbookThe Character of HarmsElectrical Supply Track Systems for Luminaires

Root Cause Analysis Following an Event at a Nuclear Installation

Root Cause Failure Analysis provides the concepts needed to effectively perform industrial troubleshooting investigations. It describes the methodology to perform Root Cause Failure Analysis (RCFA), one of the hottest topics currently in maintenance engineering. It also includes detailed equipment design and troubleshooting guidelines, which are needed to perform RCFA on machinery found in most production facilities. This is the latest book in a new series published by Butterworth-Heinemann in association with PLANT ENGINEERING magazine. PLANT ENGINEERING fills a unique information need for the men and women who operate and maintain industrial plants. It bridges the information gap between engineering education and practical application. As technology advances at increasingly faster rates, this information service is becoming more and more important. Since its first issue in 1947, PLANT ENGINEERING has stood as the leading problem-solving information source for America's industrial plant engineers, and this book series will effectively contribute to that resource and reputation. Provides information essential to industrial troubleshooting investigations Describes the methods of root cause failure analysis, a hot topic in maintenance engineering Includes detailed equipment-design guidelines

Communication and Learning

How should we deal with societal ills such as crime, poverty, pollution, terrorism, and corruption? The Character of Harms argues that control or mitigation of 'bad' things involves distinctive patterns of thought and action which turn out to be broadly applicable across a range of human endeavors, and which need to be better understood. Malcolm Sparrow demonstrates that an explicit focus on the bads, rather than on the countervailing goods (safety, prosperity, environmental stewardship, etc.) can provide rich opportunities for surgically efficient and effective interventions - an operational approach which he terms 'the sabotage of harms'. The book explores the institutional arrangements and decision-frameworks necessary to support this emerging operational model. Written for reflective practitioners charged with risk-control responsibilities across the public, private, and non-governmental sectors, The Character of Harms makes a powerful case for a new approach to tackling the complex problems facing society.

Resilience Engineering in Practice

TapRooT

Regan Keller fell in love with a wealthy and powerful man once. He was her boss. When that turbulent relationship ended, she swore she'd never again date someone she worked with. That was before she literally fell into her new boss's lap. Zachary Benson is the head of a successful empire and used to getting what he wants in the boardroom and outside of it – and what he wants is Regan Keller. He's determined to convince Regan that even though he's her boss, they can share a life together. However, when Regan's past threatens to destroy the architectural firm Zach has invested his entire career in, he has to make an executive decision whether to choose his business or fight for the woman he loves.

Philosophy of Mind

In this volume, leading scholars from the fields of communication, educational psychology, and international education address what is known about the strategic role of interpersonal communication in the teaching/learning process. Instruction often involves spoken communication that carries information from teacher to learner, and in these instances the teacher's skillful and strategic use of language has a measurable impact on learning outcomes. Thus, the cumulative findings of instructional communication research are instrumental in maximizing the efficiency and effectiveness of both teaching and learning. Major sections of this volume include: Historical and Theoretical Foundations Instructor Characteristics and Behaviors Student Characteristics and Outcomes Pedagogy and Classroom Management Teaching and Learning Communication Across the Life-span This handbook serves researchers, professors, and graduate students by surveying the collective findings of research and experience concerning the intentional activity of teaching and learning.

Lees' Process Safety Essentials

*Philosophy of Mind: A Contemporary Introduction is a comprehensive and accessible survey of main themes, positions and debates in philosophy of mind. John Heil introduces and discusses the major topics in succinct, user-friendly, self-contained chapters: * Cartesian dualism * Descartes's legacy * non-Cartesian dualism * behaviorism * the identity theory * functionalism * the representational theory of mind * qualia * radical interpretation * the intentional stance * eliminativism * property dualism * mind and metaphysics * the mind's place in nature This revised and updated edition includes expanded chapters on eliminativism, qualia, and the representational theory of mind, and an entirely new chapter on property dualism. There are annotated suggestions for further reading at the end of each chapter, updated to include recent material and internet resources.*

Leaders

"Investigating Patient Safety opens with a summary on the main theories representative of human error, such as: "Bad Apples Theory", "Normal Accident Theories" and "High Reliability Organizations Theory". Following this, the authors define mistakes in the diagnostic process, identifying their major causes and suggesting several principles for optimal, bias-free diagnoses. Evidence is presented which supports the idea that the Common Assessment Framework is a total quality management tool that public organizations can use for free for their self-assessment, aiming to improving their administrative capacity and services without having to ask for support from external sources. An analytical exploration of patient advocacy related to patient safety and the concept of a "Theory-Practice-Ethics gap" is presented, reinforcing the importance of their synonymous relationship for trustworthy healthcare practices. The concluding chapter proposes that inline fluid warming devices must employ the safest technology to ensure patients are not exposed to additional risks during the active warming of infused fluids"--

Switches for Appliances

Human beings are active agents who can think. To understand how thought serves action requires understanding how people conceive of the relation between cause and effect, between action and outcome. In cognitive terms, how do people construct and reason with the causal models we use to represent our world? A revolution is occurring in how statisticians, philosophers, and computer scientists answer this question. Those fields have ushered in new insights about causal models by thinking about how to represent causal structure mathematically, in a framework that uses graphs and probability theory to develop what are called causal Bayesian networks. The framework starts with the idea that the purpose of causal structure is to understand and predict the effects of intervention. How does intervening on one thing affect other things? This is not a question merely about probability (or logic), but about action. The framework offers a new understanding of mind: Thought is about the effects of intervention and cognition is thus intimately tied to actions that take place either in the actual physical world or in imagination, in counterfactual worlds. The book offers a conceptual introduction to the key mathematical ideas, presenting them in a non-technical way, focusing on the intuitions rather than the theorems. It tries to show why the ideas are important to understanding how people explain things and why thinking not only about the world as it is but the world as it could be is so central to human action. The book reviews the role of causality, causal models, and intervention in the basic human cognitive functions: decision making, reasoning, judgment, categorization, inductive inference, language, and learning. In short, the book offers a discussion about how people think, talk, learn, and explain things in causal terms, in terms of action and manipulation.

Root Cause Failure Analysis

*Accidents and cases of occupational ill-health are commonly associated with aspects of human behaviour and the potential for human error. Human Factors and Behavioural Safety is not written for psychologists, but instead gives health and safety professionals and students a broad overview of human factors and those aspects of human behaviour which have a direct effect on health and safety performance within organisations. Particular attention is paid to: * the role of the organisation in promoting safe behaviour * the sensory and perceptual processes of people * behavioural factors, such as attitude, motivation and personality * the process of attitude change * theories of personal risk taking and accident * the importance of good communication, change management and stress management*

The Executive's Decision

This title was first published in 2002: This volume presents a method to investigate the human performance issues associated with an accident or incident, with a detailed discussion of the types of data to collect, and methods of collecting and analyzing data. The book should be of interest to accident/incident investigators, specialists in nuclear, chemical processing, aviation and other critical industries, safety experts, researchers and students in the field of human error, human factors, ergonomics and industrial engineering, and government agencies for regulation, health and safety.

Biodiversity in Drylands

Causal Models

Lees' Process Safety Essentials is a single-volume digest presenting the critical, practical content from Lees' Loss Prevention for day-to-day use and reference. It is portable, authoritative, affordable, and accessible — ideal for those on the move, students, and individuals without access to the full three volumes of Lees'. This book provides a convenient summary of the main content of Lees', primarily drawn from the hazard identification, assessment, and control content of volumes one and two. Users can access Essentials for day-to-day reference on topics including plant location and layout; human factors and human error; fire, explosion and toxic release; engineering for sustainable development; and much more. This handy volume is a valuable reference, both for students or early-career professionals who may not need the full scope of Lees', and for more experienced professionals needing quick, convenient access to information. Boils down the essence of Lees'—the process safety encyclopedia trusted worldwide for over 30 years Provides safety professionals with the core information they need to understand the most common safety and loss prevention challenges Covers the latest standards and presents information, including recent incidents such as Texas City and Buncefield

Real Business of IT

If you're a general manager or CFO, do you feel you're spending too much on IT or wishing you could get better returns from your IT investments? If so, it's time to examine what's behind this IT-as-cost mind-set. In The Real Business of IT, Richard Hunter and George Westerman reveal that the cost mind-set stems from IT leaders' inability to

communicate about the business value they create-so CIOs get stuck discussing budgets rather than their contributions to the organization. The authors explain how IT leaders can combat this mind-set by first using information technology to generate three forms of value important to leaders throughout the organization: -Value for money when your IT department operates efficiently and effectively -An investment in business performance evidenced when IT helps divisions, units, and departments boost profitability -Personal value of CIOs as leaders whose contributions to their enterprise go well beyond their area of specialization The authors show how to communicate about these forms of value with non-IT leaders-so they understand how your firm is benefiting and see IT as the strategic powerhouse it truly is.

Investigating Patient Safety

This updated and expanded edition discusses many different tools for root cause analysis and presents them in an easy-to-follow structure: a general description of the tool, its purpose and typical applications, the procedure when using it, an example of its use, a checklist to help you make sure if is applied properly, and different forms and templates (that can also be found on an accompanying CD-ROM). The examples used are general enough to apply to any industry or market. The layout of the book has been designed to help speed your learning. Throughout, the authors have split the pages into two halves: the top half presents key concepts using brief language☐almost keywords☐and the bottom half uses examples to help explain those concepts. A roadmap in the margin of every page simplifies navigating the book and searching for specific topics. The book is suited for employees and managers at any organizational level in any type of industry, including service, manufacturing, and the public sector.

Root Cause Analysis, Second Edition

The answer is root cause analysis, a process that allows you to find the cause of single events/problems in the workplace. The Root Cause Analysis Handbook presents a walkthrough example that illustrates the method and shows how to implement it. Because poor initial problem definition can (and often does) undermine the problem-solving process, Ammerman places special emphasis on this area to build a solid foundation for effective analysis. He also provides guidance on preparing the final report. The need for clear documentation on dealing with problems makes this book especially valuable for quality managers, engineers, safety managers, and teams implementing the ISO or QS standards. Written in a simple, user-friendly style, you will grasp the core concepts quickly and begin applying them to your work.

Investigating Human Error: Incidents, Accidents and Complex Systems

This book combines field, laboratory and modelling methods to identify, characterize and quantify sources and fluxes within and between the different compartments: water, rock and air. Inorganic carbon plays an important role in shaping karst features. In the unsaturated zone, the percolating water consumes soil-derived carbon dioxide while dissolving carbonate bedrock and then releases it again while degassing and precipitating calcite in caves. A portion of the released CO_2 is returned to the atmosphere through the natural ventilation of caves. This book is an important reference source for all those interested in the global carbon budget, karst geochemistry, cave climate and paleoclimate studies using cave speleothem as proxies.

Guidelines for Auditing Process Safety Management Systems

TapRooT

Biodiversity in Drylands, the first internationally based synthesis volume in the Long-Term Ecological Research (LTER) Network Series, unifies the concepts of species and landscape diversity with respect to deserts. Within this framework, the book treats several emerging themes, among them: ï¿½ how animal biodiversity can be supported in deserts ï¿½ diversity's relation to habitat structure, environmental variability, and species interactions ï¿½ the relation between spatial scale and diversity ï¿½ how to use a landscape simulation model to understand diversity ï¿½ microbial contributions to biodiversity in deserts ï¿½ species diversity and ecosystem processes ï¿½ resource partitioning and biodiversity in fractal environments ï¿½ effects of grazing on biodiversity ï¿½ reconciliation ecology and the future of conservation management In the face of global change, integration is crucial for dealing with the problem of sustaining biodiversity. This book promises to be a vital resource for students, researchers, and managers interested in integrative species, resource, and landscape diversities.

The Siberian Alternative

This book discusses the fundamental skills, techniques, and tools of auditing, and the characteristics of a good process safety management system. A variety of approaches are given so the reader can select the best methodology for a given audit. This book updates the original CCPS Auditing Guideline project since the implementation of OSHA PSM regulation, and is accompanied by an online download featuring checklists for both the audit program and the audit itself. This package offers a vital resource for process safety and process development personnel, as well as related professionals like insurers.

Sources and Transport of Inorganic Carbon in the Unsaturated Zone of Karst

"In the case of an event at a nuclear installation it is important to accurately determine the root causes, in order to allow corrective actions to be implemented to address them and prevent their recurrence. There are different analysis tools, techniques and methods available which can be used to evaluate the root causes of events and this publication presents a comprehensive reference manual of them and allows organizations to deepen their knowledge of these instruments. In addition, it also provides new organizations with a broad overview of the root cause analysis process. The present manual is also intended to provide guidance to all organizations establishing a new process for root cause analysis, especially in countries embarking upon a nuclear power programme."--Publisher's description.

Human Factors and Behavioural Safety

The Root Cause Analysis Handbook

An instant national bestseller! Stanley McChrystal, the retired US Army general and bestselling author of Team of Teams, profiles thirteen of history's great leaders, including Walt Disney, Coco Chanel, and Robert E. Lee, to show that leadership is not what you think it is—and never was. Stan McChrystal served for thirty-four years in the US Army, rising from a second lieutenant in the 82nd Airborne Division to a four-star general, in command of all American and coalition forces in Afghanistan. During those years he worked with countless leaders and pondered an ancient question: "What makes a leader great?" He came to realize that there is no simple answer. McChrystal profiles thirteen famous leaders from a wide range of eras and fields—from corporate CEOs to politicians and revolutionaries. He uses their stories to explore how leadership works in practice and to challenge the myths that complicate our thinking about this critical topic. With Plutarch's Lives as his model, McChrystal looks at paired sets of leaders who followed unconventional paths to success. For instance. . . · Walt Disney and Coco Chanel built empires in very different ways. Both had public personas that sharply contrasted with how they lived in private. · Maximilien Robespierre helped shape the French Revolution in the eighteenth century; Abu Musab al-Zarqawi led the jihadist insurgency in Iraq in the twenty-first. We can draw surprising lessons from them about motivation and persuasion. · Both Boss Tweed in nineteenth-century New York and Margaret Thatcher in twentieth-century Britain followed unlikely roads to the top of powerful institutions. · Martin Luther and his future namesake Martin Luther King Jr., both local clergymen, emerged from modest backgrounds to lead world-changing movements. Finally, McChrystal explores how his former hero, General Robert E. Lee, could seemingly do everything right in his military career and yet lead the Confederate Army to a devastating defeat in the service of an immoral cause. Leaders will help you take stock of your own leadership, whether you're part of a small team or responsible for an entire nation.

The Character of Harms

Resilience engineering has since 2004 attracted widespread interest from industry as well as academia. Practitioners from various fields, such as aviation and air traffic management, patient safety, off-shore exploration and production, have quickly realised the potential of resilience engineering and have became early adopters. The continued development of resilience engineering has focused on four abilities that are essential for resilience. These are the ability a) to respond to what happens, b) to monitor critical developments, c) to anticipate future threats and opportunities, and d) to learn from past experience - successes as well as failures. Working with the four abilities provides a structured way of analysing problems and issues, as well as of proposing practical solutions (concepts, tools, and methods). This book is divided into four main sections which describe issues relating to each of the four abilities. The chapters in each section emphasise practical ways of engineering resilience and feature case studies and real applications. The text is written to be easily accessible for readers who are more interested in solutions than in research, but will also be of interest to the latter group.

Electrical Supply Track Systems for Luminaires