Free pdf Organizational accidents revisited Full PDF

Organizational Accidents Revisited Organizational Accidents Revisited Managing the Risks of Organizational Accidents Organizational Accidents Revisited Managing the Risks of Organizational Accidents A Life in Error Pre-Accident Investigations Inside Hazardous Technological Systems Rational Accidents Global Advances in Engineering Education Risk Assessment Handbook of Standards and Guidelines in Human Factors and Ergonomics, Second Edition Culture and Computing. Design Thinking and Cultural Computing Essentials of Safety Advances in Safety Management and Human Factors Fatal Solution Human Error Human Factors in the Nuclear Industry Training-Within-Industry Job Programs for Improved Construction Safety Convergence of ESP with other disciplines Advanced Safety Management The Sage Handbook of Decision Making, Assessment and Risk in Social Work Principles of Perioperative Safety and Efficiency Critical Steps Patient Safety and Quality

Improvement in Healthcare The Human Contribution Mindful Safety Risk Assessment Communication Skills and Challenges in Medical Practice, An Issue of Medical Clinics of North America, E-Book Driving Automation Trevor Kletz Compendium Fundamentals of Operating Department Practice Human and Organisational Factors NASA Formal Methods Predicting User Performance and Errors Scapegoating Civil and Military Airworthiness Safety Cultures, Safety Models The Chernobyl Accident Revisited Permanently Failing Organizations

Organizational Accidents Revisited

2016-05-26

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

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Managing the Risks of Organizational Accidents

1997

presents a set of principles related to the causes of major accidents in high technology systems and describes tools and techniques for managing risks of such organizational accidents that go beyond those currently available to system managers and safety professionals deals with prevention of major accidents arising from human and organizational causes in many different domains from banks and insurance companies to nuclear power plants and transport for those working in management or regulation of hazardous technologies annotation copyrighted by book news inc portland or

Organizational Accidents Revisited

2016-01-28

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Managing the Risks of Organizational Accidents

2016-01-29

major accidents are rare events due to the many barriers safeguards and defences developed by modern technologies but they continue to happen with saddening regularity and their human

and financial consequences are all too often unacceptably catastrophic one of the greatest challenges we face is to develop more effective ways of both understanding and limiting their occurrence this lucid book presents a set of common principles to further our knowledge of the causes of major accidents in a wide variety of high technology systems it also describes tools and techniques for managing the risks of such organizational accidents that go beyond those currently available to system managers and safety professionals james reason deals comprehensively with the prevention of major accidents arising from human and organizational causes he argues that the same general principles and management techniques are appropriate for many different domains these include banks and insurance companies just as much as nuclear power plants oil exploration and production companies chemical process installations and air sea and rail transport its unique combination of principles and practicalities make this seminal book essential reading for all whose daily business is to manage audit and regulate hazardous technologies of all kinds it is relevant to those concerned with understanding and controlling human and organizational factors and will also interest academic readers and those working in industrial and government

agencies

A Life in Error

2013-11-01

this succinct but absorbing book covers the main way stations on james reason s 40 year journey in pursuit of the nature and varieties of human error he presents an engrossing and very personal perspective offering the reader exceptional insights wisdom and wit as only james reason can a life in error charts the development of his seminal and hugely influential work from its original focus on individual cognitive psychology through the broadening of scope to embrace social organizational and systemic issues

Pre-Accident Investigations

2012

this book is a set of new skills written for the managers that drive safety in their workplace this is human performance theory made simple if you are starting a new program revamping an old program

or simply interested in understanding more about safety performance this guide will be extremely helpful

Inside Hazardous Technological Systems

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

Rational Accidents

2024-01-16

an unflinching look at the unique challenges posed by complex technologies we cannot afford to let fail and why the remarkable achievements of civil aviation can help us understand those challenges nuclear reactors deep sea drilling platforms deterrence infrastructures these are all complex and formidable technologies with the potential to fail catastrophically in rational accidents john downer outlines a new perspective on technological failure arguing that undetectable errors can lurk in even the most rigorous and rational assessments of these systems due to the inherent limits of engineering tests and models downer finds that it should be impossible from an epistemological viewpoint to achieve the near perfect reliability that we require of our most safety critical technologies there is however one such technology that demonstrably appears to achieve these impossible reliabilities jetliners downer looks closely at civil aviation and how it has reckoned with the problem of failure he finds that the way we

conceive of jetliner reliability hides the real practices by which it is achieved and he shows us why those practices are much less transferrable across technological domains than we are led to believe fully understanding why jetliners don t crash he concludes should lead us to doubt the safety of other ultra reliable technologies a unique and sobering exploration of technological reliability from an sts perspective rational accidents is essential reading for understanding why our most safety critical technologies are even more dangerous than we believe

Global Advances in Engineering Education

2019-05-03

the engineering profession is at a critical juncture that requires reforming engineering education the supply of engineers is declining whereas the nature of the demand is changing formulating a response to these challenges demands the adoption of new and innovative tools and methods for promoting the expansion of the community while supporting these evolving requirements initiatives to entice and retain students are being employed to support growth objectives modern technologies are

reshaping reform efforts this book discusses the state of affairs in the field of engineering education and presents practical steps for addressing the challenges in order to march toward a brighter future features covers the latest state of engineering education in the north america europe middle east north africa and far east asia discusses advances in science technology engineering and mathematics and community engagement outlines applications of digital technologies to enhance learning provides advances in remote and online instructions for engineering education presents discussions on innovation leadership and ethics

Risk Assessment

2020-03-03

introduces risk assessment with key theories proven methods and state of the art applications risk assessment theory methods and applications remains one of the few textbooks to address current risk analysis and risk assessment with an emphasis on the possibility of sudden major accidents across various areas of practice from machinery and manufacturing processes to nuclear power plants and transportation systems updated to align with iso

31000 and other amended standards this all new 2nd edition discusses the main ideas and techniques for assessing risk today the book begins with an introduction of risk analysis assessment and management and includes a new section on the history of risk analysis it covers hazards and threats how to measure and evaluate risk and risk management it also adds new sections on risk governance and risk informed decision making combining accident theories and criteria for evaluating data sources and subjective probabilities the risk assessment process is covered as are how to establish context planning and preparing and identification analysis and evaluation of risk risk assessment also offers new coverage of safe job analysis and semi quantitative methods and it discusses barrier management and hra methods for offshore application finally it looks at dynamic risk analysis security and life cycle use of risk serves as a practical and modern guide to the current applications of risk analysis and assessment supports key standards and supplements legislation related to risk analysis updated and revised to align with iso 31000 risk management and other new standards and includes new chapters on security dynamic risk analysis as well as life cycle use of risk analysis provides in depth coverage on hazard identification

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

Handbook of Standards and Guidelines in Human Factors and Ergonomics, Second

Edition

2021-06-28

with an updated edition including new material in additional chapters this one of a kind handbook covers not only current standardization efforts but also anthropometry and optimal working postures ergonomic human computer interactions legal protection occupational health and safety and military human factor principles while delineating the crucial role that standards and guidelines play in facilitating the design of advantageous working conditions to enhance individual performance the handbook suggests ways to expand opportunities for global economic and ergonomic development this book features guidance on the design of work systems including tasks equipment and workspaces as well as the work environment in relation to human capacities and limitations emphasis on important human factors and ergonomic standards that can be utilized to improve product and process to ensure efficiency and safety a focus on quality control to ensure that standards are met throughout the worldwide market

Culture and Computing. Design Thinking and Cultural Computing

2021-07-03

the two volume set lncs 12794 12795 constitutes the refereed proceedings of the 9th international conference on culture and computing c c 2021 which was held as part of hci international 2021 and took place virtually during july 24 29 2021 the total of 1276 papers and 241 posters included in the 39 hcii 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions the papers included in the hcii c c volume set were organized in topical sections as follows part i ict for cultural heritage technology and art visitors experiences in digital culture part ii design thinking in cultural contexts digital humanities new media and culture perspectives on cultural computing

Essentials of Safety

2021-09-26

this book is not about safety it is about people and leadership it

explores the few things in safety that sit beneath all of the complexity and complicatedness of the workplace and that we simply must get right it explores what the underlying elements are that look through each of the lenses of the individual leaders and leadership the systems we use and the workplace cultures it does this by exploring each of 12 underlying elements chapter 1 what leaders practices and routines might look like chapter 2 barriers to implementation and their remedies chapter 3 how to use the essentials of safety to learn after incidents chapter 4 and how to measure the effectiveness in the workplace of each of the essential elements chapter 5 it is designed to promote thinking not to be a set of instructions it is aimed at students safety practitioners leaders in industry at all levels and anyone interested in understanding what good might look like in the safety and leadership space

Advances in Safety Management and Human Factors

2018-06-25

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

Fatal Solution

2022-05-10

one box of chemicals mistaken for another ingredients intended to

be life sustaining are instead life taking families in shock healthcare providers reeling and fingers starting to point a large healthcare system s reputation hangs in the balance while decisions need to be made quickly more questions than answers people have to be held accountable does this mean they get fired should the media and therefore the public be informed what are family members and the providers involved feeling when the dust settles will remaining patients be more safe or less safe in this provocative true story of tragedy the authors recount the journey travelled and what was learned by at the time canada s largest fully integrated health region they weave this story together with the theory about why things fall apart and how to put them back together again building on the writings and wisdom of james reason and other experts the book explores new ways of thinking about just culture and what this would mean for patients and family members in addition to healthcare providers with afterwords by two of the major players in this story the authors make a compelling case that just culture is as much about fairness and healing as it is about supporting a safety culture

Human Error

1990-10-26

this 1991 book is a major theoretical integration of several previously isolated literatures looking at human error in major accidents

Human Factors in the Nuclear Industry

2020-10-17

human factors in the nuclear industry a systemic approach to safety presents the latest research and studies of human factors in the nuclear industry it models and highlights scientific and technological foundations before providing practical examples of applications within the nuclear facility of human performance at an individual group organization and system level editors dr teperi and dr gotcheva supply concrete models tools and techniques based on research to provide the reader with knowledge of how to facilitate and support human performance in this dynamic and fast moving safety critical field models and case studies are provided to add

practical benefits for the reader to apply to their own projects including user friendly state of the art equipment fluent work processes for information flow functional control room resource management and scope for competence and learning in the work place this book will benefit nuclear researchers safety experts human factors professionals and power plant operators as well as those with an interest in human factors outside of the nuclear field provides a comprehensive framework for human factors considering not only the individual but also the team organizational and industrial levels presents tried and tested tools and techniques based on research from the nuclear industry includes models examples and case studies of user friendly equipment fluent work processes and functional control room resource management

Training-Within-Industry Job Programs for Improved Construction Safety

2023-10-06

the purpose of this book is to demonstrate how a training within industry twi job program could reduce human factor related harm in

construction the construction industry has a significant impact on issues relating to the health safety and well being hsw of people in the workforce it is important to acknowledge that workers behaviour influences the safety management system sms of construction projects either negatively or positively and that it is important for a management team to identify relevant behaviours and take appropriate action to solve problems in most cases accidents happen because of the results of human failure in the form of errors violations and system failures human failure causes accidents and site management needs to reduce hazards that might cause such errors violations and system failures on worksites the chapters in the book address factors causing human failure on construction sites how to mitigate errors and violations through sms and learning by doing and improving practice of using safety instructors on sites the book closes with insights from a twi informed human failure reduction framework this book provides valuable insights into safety management in a construction site context that can be applied to other areas it is essential reading for safety managers construction managers researchers and advanced students

Convergence of ESP with other disciplines

2019-01-30

in designing a successful english for specific purposes esp course an esp lecturer must research the professional setting and in turn analyze abstract and synthesize its linguistic characteristics expert vocabulary typical syntactic structures relevant morphological word formation processes exemplary text organization and both written and spoken stylistics are no longer taught with little functional relevance instead they are approached from a subject specific perspective while designing and or compiling teaching and learning material an esp lecturer must decide upon the appropriate teaching methodology and pedagogy in order to ensure that the course in its entirety simulates a particular professional situation only if the course is successful in this aim will esp learners be able to quickly engage in uninhibited communication and improve job performance in their field of work whether that be in tourism or aviation although many professional settings share certain characteristics they are nevertheless unique and often require different approaches for this reason there is little or no ready made teaching material or

methodological approaches when it comes to esp teaching a dedicated esp lecturer caters for those idiosyncrasies doing a minute multifaceted investigation into the linguistic characteristics of the relevant professional domain bringing together a collection of essays this edited volume reveals the variety depth and quality of the esp research and its convergence across different professional disciplines

Advanced Safety Management

2020-03-13

establishes sound safety management principles and focuses on the revised z10 0 safety standard the new 45001 safety standard and serious injury prevention filled with updated chapters and information throughout this book covers the provisions of ansi assp z10 0 2019 the american standard for occupational health and safety management systems it expands in detail on the principles for advanced safety management the content of the revised z10 0 standard and the newly adopted international standard iso 45001 it also emphasizes the need to reduce the occurrence of serious injuries illnesses and fatalities advanced safety management

focusing on z10 0 45001 and serious injury prevention third edition expands on the material in previous editions and includes several new chapters emphasizing culture systems design and incident investigations beginning with an overview of ansi assp z10 0 2019 and ansi assp iso 45001 2018 it goes on to offer chapters on essentials for the practice of safety human error avoidance hazards analyses and risk assessments three and four dimensional risk scoring systems safety design reviews the procurement process audit requirements the management oversight and risk tree mort and more expands in detail on the principles for advanced safety management the content of the revised ansi assp z10 0 standard and the newly adopted international standard iso 45001 new chapters cover the significance of an organization s culture fundamental concepts and systems macro thinking places emphasis on the more prominent risk based approach in the practice of safety provides methods to align safety operational and financial goals along with quality and environmental standards explains the concepts of risk reduction waste reduction environmental impact deduction and prevention through design ptd advanced safety management is an important book for safety professionals industrial hygienist plant managers osha and epa

advocates students majoring in safety or industrial hygiene and union leaders

The Sage Handbook of Decision Making, Assessment and Risk in Social Work

2023-08-16

the sage handbook on decision making assessment and risk in social work provides a comprehensive overview of key strands of research and theoretical concepts in this increasingly important field with 49 chapters and four section summaries this handbook describes the state of the art discuss key debates and issues and gives pointers on future directions for practice research teaching management of services and development of theoretical understandings a key aim of this handbook is to support the development of sound applied knowledge and values to underpin reasoned professional judgement and decision making by social workers in practice and those in management and regulatory roles with contributions from a global interdisciplinary body of leading and emerging scholars from a wide variety of roles this handbook

has been designed to be internationally generalisable and applicable to all major areas of social work this handbook provides a field defining account of decision making assessment and risk in social work which is unrivalled for its diversity and strength of coverage and will be of value to social work researchers teachers and practitioners as well as to those in allied fields such as health care section 1 professional judgement section 2 assessment risk and decision processes section 3 assessment tools and approaches section 4 developing and managing practice section 5 concluding section afterword

Principles of Perioperative Safety and Efficiency

2021-11-19

critical steps happen every day at work and at home purposefully work does not happen otherwise if an operation has the capacity to do work then it has the capacity to do harm work is energy directed by human beings to create value but people are imperfect we make mistakes and sometimes we lose control of the work

therefore work is the use of force under conditions of uncertainty a critical step is a human action that will trigger immediate irreversible and intolerable harm to an asset if that action or a preceding action is performed improperly whether the human action involves clicking on a link attached to an e mail message walking down a flight of stairs with a newborn baby in arms engaging the clutch on a gasoline driven chain saw or administering a medication to a patient in a hospital these all satisfy the definition of what constitutes critical risks in our daily lives professionally or personally the overarching goal of managing critical steps is to maximize the success safety reliability productivity quality profitability etc of people s performance in the workplace to create value for the organization without losing control of built in hazards necessary to create that value

Critical Steps

2020-12-15

this text uses a case based approach to share knowledge and techniques on how to operationalize much of the theoretical underpinnings of hospital quality and safety written and edited by

leaders in healthcare education and engineering these 22 chapters provide insights as to where the field of improvement and safety science is with regards to the views and aspirations of healthcare advocates and patients each chapter also includes vignettes to further solidify the theoretical underpinnings and drive home learning end of chapter commentary by the editors highlight important concepts and connections between various chapters in the text patient safety and quality improvement in healthcare a case based approach presents a novel approach towards hospital safety and quality with the goal to help healthcare providers reach zero harm within their organizations

Patient Safety and Quality Improvement in Healthcare

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 Human Contribution

2021-04-15

synthesising the latest thinking from neuroscience and psychology with the practice of safety management mindful safety shows how a much stronger safety culture can be built from the ground up case studies applied research and practical exercises all demonstrate how attention and the ability to focus can significantly boost performance and resilience whilst reducing human error and the number of safety incidents representing a new kind of safety thinking to meet contemporary challenges the book covers four critical levels the individual the relational the organisational and the societal the approach can be successfully applied to the healthcare road rail aviation and energy sectors for greater safety and performance the emphasis on self care strengthening relationships and learning from positives signals a clear shift in safety management thinking this is not just an insightful analytical

approach but an action based one ready for implementation few approaches in the field tackle the subjects of sleep fatigue distraction smartphone addiction workplace stress and mental health with the same vigour or provide the safety toolkit for fighting a pandemic if you want to create the right mindset to achieve exceptional results in these uncertain times this book will show you how it is aimed at professionals in the health and safety industry as well as graduate students in human factors ergonomics industrial engineering and production engineering

Mindful Safety

2022-01-19

risk assessment explore the fundamentals of risk assessment with references to the latest standards methodologies and approaches the second edition of risk assessment a practical guide to assessing operational risks delivers a practical exploration of a wide array of risk assessment tools in the contexts of preliminary hazard analysis job safety analysis task analysis job risk assessment personnel protective equipment hazard assessment failure mode and effect analysis and more the distinguished

authors discuss the latest standards theories and methodologies covering the fundamentals of risk assessments as well as their practical applications for safety health and environmental professionals with risk assessment responsibilities what if checklist analysis methods are included for additional guidance now in full color the book includes interactive exercises links videos and online risk assessment tools that can be immediately applied by working practitioners the authors have also included material that reflects the latest updates to iso standards the assp technical report and the ansi z590 3 prevention through design standard new hazard phrases for chemical hazards in the globally harmonized system as well as niosh s new occupational exposure banding tool the new risk based approach featured in the navy ih field manual new chapters covering business continuity causal factors analysis and layers of protection analysis and barrier analysis an indispensable resource for employed safety professionals in a variety of industries business leaders and staff personnel with safety responsibilities and environmental engineers risk assessment a practical guide to assessing operational risks is also useful for students in safety health and environmental science courses

Risk Assessment

2022-06-23

in this issue of medical clinics of north america guest editor dr heather hofmann brings her considerable expertise to the topic of communication skills and challenges in medical practice communication is a core part of medical practice and just as physicians increase their knowledge and hone clinical reasoning skills so too must communication skills be refined this issue provides an evidence based review of patient centered communication for the general practitioner covering key communications skills commonly used in patient encounters including challenges posed by modern medicine to effective communication contains 15 relevant practice oriented topics including addressing the challenges of cross cultural communication gender and health communication eliciting the patient narrative motivating behavioral change breaking bad news using technology to enhance communication and more provides in depth clinical reviews on communication skills and challenges in medical practice offering actionable insights for clinical practice

presents the latest information on this timely focused topic under the leadership of experienced editors in the field authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Communication Skills and Challenges in Medical Practice, An Issue of Medical Clinics of North America, E-Book

2023-03-10

the technology behind self driving cars is being heavily promulgated as the solution to a variety of transport problems including safety congestion and impact on the environment this text examines the key role that human factors plays in driving forward future vehicle automation in a way that realizes the benefits while avoiding the pitfalls driving automation a human factors perspective addresses a range of issues related to vehicle automation beyond the can we to how should we it covers important topics including mental workload and malleable attentional resources theory effects of automation on driver performance in vehicle interface design

driver monitoring eco driving responses to automation failure and human centred automation the text will be useful for graduate students and professionals in diverse areas such as ergonomics human factors automobile engineering industrial engineering mechanical engineering and health and safety

Driving Automation

2021-01-21

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

Trevor Kletz Compendium

2022-09-08

a practical guide on the essential principles for the effective care of patients during anaesthesia surgery and the recovery period

Fundamentals of Operating Department Practice

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

Human and Organisational Factors

2018-04-06

this book constitutes the proceedings of the 10th international symposium on nasa formal methods nfm 2018 held in newport news va usa in april 2018 the 24 full and 7 short papers presented in this volume were carefully reviewed and selected from 92 submissions the papers focus on formal techniques and other approaches for software assurance their theory current capabilities and limitations as well as their potential application to aerospace robotics and other nasa relevant safety critical systems during all stages of the software life cycle

NASA Formal Methods

2017-07-20

this book proposes a combination of cognitive modeling with model based user interface development to tackle the problem of maintaining the usability of applications that target several device types at once e g desktop pc smart phone smart tv model based applications provide interesting meta information about the elements of the user interface ui that are accessible through computational introspection cognitive user models can capitalize on this meta information to provide improved predictions of the interaction behavior of future human users of applications under development in order to achieve this cognitive processes that link ui properties to usability aspects like effectiveness user error and efficiency task completion time are established empirically are explained through cognitive modeling and are validated in the course of this treatise in the case of user error the book develops an extended model of sequential action control based on the memory for goals theory and it is confirmed in different behavioral domains and experimental paradigms this new model of user

cognition and behavior is implemented using the memo workbench and integrated with the model based application framework masp in order to provide automated usability predictions from early software development stages on finally the validity of the resulting integrated system is confirmed by empirical data from a new application eliciting unexpected behavioral patterns

Predicting User Performance and Errors

2023-06-30

reveals the mechanisms involved in the creation of scapegoats in organizations

Scapegoating

2020-05-27

airworthiness as a field encompasses the technical and non technical activities required to design certify produce maintain and safely operate an aircraft throughout its lifespan the evolving technology science and engineering methods and most importantly aviation regulation offer new opportunities and create new

challenges for the aviation industry this book assembles review and research articles across a variety of topics in the field of airworthiness aircraft maintenance safety management human factors cost analysis structures risk assessment unmanned aerial vehicles and regulations this selection of papers informs the industry practitioners and researchers on important issues

Civil and Military Airworthiness

2018-09-21

the objective of this book is to help at risk organizations to decipher the safety cloud and to position themselves in terms of operational decisions and improvement strategies in safety considering the path already travelled their context objectives and constraints what link can be established between safety culture and safety models in order to increase safety within companies carrying out dangerous activities first while the term safety culture is widely shared among the academic and industrial world it leads to various interpretations and therefore different positioning when it comes to assess improve or change it many safety theories concepts and models coexist today being more or less appealing and or directly

useful to the industry how and based on which criteria to choose from the available options these are some of the questions addressed in this book which benefits from the expertise of its worldwide famous authors in several industrial sectors

Safety Cultures, Safety Models

1994

in this volume the authors closely examine performance and draw on both sociology and economics to explain why some organizations perform well and others perform badly they first separate the concept of organizational performance from that of organizational persistence then they develop a provocative theory of why and how organizations tend towards failure and how they survive in spite of it meyer and zucker contend that management plays a critical role in the movement towards or away from poor performance yet persistence is determined by the often competing interests of owners managers workers and the public

The Chernobyl Accident Revisited

1989-02

Permanently Failing Organizations

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