



A Resilience Engineering Approach for Sustainable Safety in Green Construction

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ABSTRACT

Sustainable construction is a complex endeavour, involving various stakeholders and resulting in situations that are incompletely described or underspecified. Traditional risk assessment methods require a detailed description of the system and safety, focusing on undesirable outcomes, losses, incidents and accidents. Developing this principle, this research describes a new way to deal with risk assessment in the green construction industry using a resilience engineering method based on the functional resonance analysis method and analytic hierarchy process methodologies. The functional resonance analysis method defines a systemic framework to model complex systems based on combinations of function variabilities during normal work. Therefore, to quantify the outcomes for risk assessment, this method was used together with the analytic hierarchy process in a case study during the modernisation work on the Maracanã stadium in Rio de Janeiro. The results of this case study demonstrate that the combined utilisation of the functional resonance analysis method and analytic hierarchy process can be utilised to recognise situations where developments could potentially be without control, which enables this to be used as a basis for performing indicators or a monitoring system. Furthermore, this combined technique can be used to assess and quantify the performance variabilities that may lead to occupational or environmental accidents, and provide new recommendations about how work processes should function, minimising production losses, incidents and accidents.

KEYWORDS

Sustainable construction, Resilience engineering, Functional resonance analysis method, Analytic hierarchy process, Construction safety, Occupational safety, Risk management.

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Operations Management Antonella Petrillo, Fabio De Felice, Germano Lambert-Torres, Erik Bonaldi, 2021-03-03 Global competition has caused fundamental changes in the competitive environment of the manufacturing and service industries. Firms should develop strategic objectives that upon achievement result in a competitive advantage in the market place. The forces of globalization on one hand and rapidly growing marketing opportunities overseas especially in emerging economies on the other have led to the expansion of operations on a global scale. The book aims to cover the main topics characterizing operations management including both strategic issues and practical applications. A global environmental business including both manufacturing and services is analyzed. The book contains original research and application chapters from different perspectives. It is enriched through the analyses of case studies.

Occupational and Environmental Safety and Health II Pedro M. Arezes, J. Santos Baptista, Mónica P. Barroso, Paula Carneiro, Patrício Cordeiro, Néelson Costa, Rui B. Melo, A. Sérgio Miguel, Gonçalo Perestrelo, 2020-02-20 This book explores a number of important issues in the area of occupational safety and hygiene. Presenting both research and best practices for the evaluation of occupational risk safety and health in various types of industry it particularly focuses on occupational safety in automated environments innovative management systems and occupational safety in a global context. The different chapters examine the perspectives of all those involved such as managers workers and OSH professionals. Based on selected contributions presented at the 16th International Symposium on Occupational Safety and Hygiene SHO 2020 held on 6-7 April 2020 in Porto Portugal the book serves as a timely reference guide and source of inspiration to OSH researchers practitioners and organizations operating in a global context.

Resilience Engineering Nii O. Attoh-Okine, 2016-04-04 Along with case studies this book presents a step by step approach to formulating the resilience of civil infrastructure and energy systems.

Crises in Oil, Gas and Petrochemical Industries Mohammad Reza Rahimpour, Babak Omidvar, Nazanin Abrishami Shirazi, Mohammad Amin Makarem, 2023-07-13 Crises in Oil Gas and Petrochemical Industries Loss Prevention and Disaster Management Volume Two provides an overview of both natural and manmade disasters occurring in oil gas and petrochemical industries and prepares special solutions based on their types. The book focuses on loss prevention and disaster management in petrochemical industries from different points of view. Sections review methods for making the apparatus safer and continue with discussions on the process of facing and managing disasters during the occurrence. Final sections cover loss and economic analysis after disasters and methods of reversibility are presented with case studies from around the world. Introduces pre disaster strategies in oil gas and petrochemical industries. Describes during disaster strategies in oil gas and petrochemical industries. Discusses post disaster management methods in oil gas and petrochemical industries.

Resilience Engineering Perspectives, Volume 2 Erik Hollnagel, Christopher P. Nemeth, 2016-12-05 Preparation and Restoration is the second volume of Resilience Engineering Perspectives within the Ashgate Studies in Resilience Engineering series. In four sections it

broadens participation of the field to include policy and organization studies and articulates aspects of resilience beyond initial definitions Policy and Organization explores public policy and organizational aspects of resilience and how they aid or inhibit preparation and restoration Models and Measures addresses thoughts on ways to measure resilience and model systems to detect desirable and undesirable results Elements and Traits examines features of systems and how they affect the ability to prepare for and recover from significant challenges Applications and Implications examines how resilience plays out in the living laboratory of real world operations Preparation and Restoration addresses issues such as the nature of resilience the similarities and differences between resilience and traditional ideas of system performance how systems cope with varying demands and sometimes succeed and sometimes fail how an organization s ways of preparing before critical events can enable or impede restoration the trade offs that are needed for systems to operate and survive instances of brittle or resilient systems how work practices affect resilience the relationship between resilience and safety and what improves or erodes resilience This volume is valuable reading for those who create and operate systems that must not only survive but thrive in the face of challenge

Methods to Assess and Manage Process Safety in Digitalized Process System Faisal Khan,2022-07-06 *Methods to Assess and Manage Process Safety in Digitalized Process System* Volume Six the latest release in the *Methods in Chemical Process Safety* series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Methods in Chemical Process Safety* series Provides the authority and expertise of leading contributors from an international board of authors

Internet of Things, Threats, Landscape, and Countermeasures Stavros Shiaeles,Nicholas Kolokotronis,2021-04-29 *Internet of Things* IoT is an ecosystem comprised of heterogeneous connected devices that communicate to deliver capabilities making our living cities transport energy and other areas more intelligent This book delves into the different cyber security domains and their challenges due to the massive amount and the heterogeneity of devices This book introduces readers to the inherent concepts of IoT It offers case studies showing how IoT counteracts the cyber security concerns for domains It provides suggestions on how to mitigate cyber threats by compiling a catalogue of threats that currently comprise the contemporary threat landscape It then examines different security measures that can be applied to system installations or operational environment and discusses how these measures may alter the threat exploitability level and or the level of the technical impact Professionals graduate students researchers academicians and institutions that are interested in acquiring knowledge in the areas of IoT and cyber security will find this book of interest

Safety, Health and Welfare in Agriculture and Agro-Food Systems Remigio Berruto,Marcello Biocca,Eugenio Cavallo,Massimo Cecchini,Sabina Failla,Elio Romano,2024-08-31 This book gathers the latest advances innovations and applications in the fields of agricultural biotechnology agro food systems and forestry as presented by leading international researchers and engineers at the 7th International Conference on Safety Health and

Welfare in Agriculture and Agro food Systems SHWA held in Ragusa Italy on September 6 9 2023 The papers cover a range of topics such as agricultural assistive technologies machine milking animal welfare sustainable livestock farming work organization and logistic in agro food supply chain agricultural instrumentation and equipment safety and health in building agriculture 4 0 automation occupational health precision farming effect of landscapes on human health environmental safety rural health agricultural machinery ROPS augmented reality and IoT cyber security The contributions included in the book were selected by means of a rigorous peer review process and offer an extensive and multidisciplinary overview of interesting solutions in the field of sustainable agriculture

New Opportunities and Challenges in Occupational Safety and Health Management Daniel Podgórski,2020-07-08 Global economy and its business environment and thus the world of work have recently been influenced by demographic and social changes globalisation as well as rapid development and introduction of novel sophisticated and previously unknown technologies and new business models especially in the context of the so called fourth industrial revolution These changes pose a number of challenges in terms of maintaining and improving occupational safety and health OSH management performance as traditional approaches to OSH management in new working environments may no longer be effective In view of the above the overall goal of this book is to present new approaches and methods for improving the effectiveness of OSH management They are based on state of the art research and are in line with the latest trends and concepts in the field The book focuses on five thematic areas which are discussed in respective chapters 1 Implementing the process approach to OSH management 2 Improving OSH management systems with fuzzy cognitive maps 3 Implementing strategic thinking approaches in relation to OSH management 4 Integrating OSH management within the framework of the CSR concept 5 Enhancing OSH management processes through the use of smart digital technologies The methods and solutions discussed may be considered as specific opportunities for the improvement to be taken into account in the processes of implementing and maintaining an OSH management system in light of the requirements of the new ISO 45001 standard

Resilience Engineering Nii O. Attah-Okine,2016-04-04 With an eye towards environmental sustainability this book presents a step by step approach to formulating the resilience of civil infrastructure and energy systems It provides a concise explanation of resilience terminology a general overview of theoretical models and analyses and a clear guide to practical applications covering critical topics such as interdependent infrastructures and geologic carbon sequestration Additionally it contains a general introduction to selected data science topics so readers can acquire the tools to formulate and analyze resilience engineering problems in depth Informed by the author s extensive practical experience and thorough academic background this book includes examples to illustrate key computational algorithms end of chapter exercises and references and an entire chapter devoted to case studies Intended for practitioners of resilience engineering with a background in probability this book offers a balanced blend of background theory and practical examples to address one of the most important emerging topics of modern times

[Resilience Engineering](#)

Perspectives, Volume 1 Christopher P. Nemeth, 2016-12-05 In the resilience engineering approach to safety failures and successes are seen as two different outcomes of the same underlying process namely how people and organizations cope with complex underspecified and therefore partly unpredictable work environments Therefore safety can no longer be ensured by constraining performance and eliminating risks Instead it is necessary to actively manage how people and organizations adjust what they do to meet the current conditions of the workplace by trading off efficiency and thoroughness and by making sacrificing decisions The Ashgate Studies in Resilience Engineering series promulgates new methods principles and experiences that can complement established safety management approaches providing invaluable insights and guidance for practitioners and researchers alike in all safety critical domains While the Studies pertain to all complex systems they are of particular interest to high hazard sectors such as aviation ground transportation the military energy production and distribution and healthcare Published periodically within this series will be edited volumes titled Resilience Engineering Perspectives The first volume Remaining Sensitive to the Possibility of Failure presents a collection of 20 chapters from international experts This collection deals with important issues such as measurements and models the use of procedures to ensure safety the relation between resilience and robustness safety management and the use of risk analysis The final six chapters utilise the report from a serious medical accident to illustrate more concretely how resilience engineering can make a difference both to the understanding of how accidents happen and to what an organisation can do to become more resilient

Environmental Engineering James R. Mihelcic, Julie B. Zimmerman, 2021-08-03 Focuses on modern sustainable design concepts processes and practices Applies foundational principles of physics chemistry biology and sustainability to creating solutions for managing and mitigating environmental problems Places emphasis on global issues such as pollution prevention and resource recovery Explains energy and mass balance concepts using numerous clear and engaging example problems Provides a coherent and unified approach to life cycle assessment and thinking development Features effective pedagogical tools including numerical assessment and design problems research activities discussion topics and extensive online learning resources Includes extensive teaching materials for instructors such as active learning exercises homework assignments classroom activities and a solutions manual

Resilience Engineering in Practice Jean Pariès, John Wreathall, 2017-05-15 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 become 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

UNCRD Annual Report United Nations Centre for Regional Development, 2011

Sustainable Development in Water-stressed Developing Countries Satoshi Kojima, 2007 This innovative book investigates the practical applications of sustainable development in the spirit of the Brundtland Report paying special attention to water stressed developing countries Satoshi Kojima argues that the main objective of sustainable development is poverty alleviation within the present generation without destroying those ecosystems underpinning life support systems The policy implications of such sustainable development policies are investigated with an original quantitative policy analysis framework Researchers in environmental ecological and development economics will find this book of great interest It will also appeal to researchers and scholars interested in water management and related issues

Jacket *Technological Transformation for Sustainable Development*, 1991

Resilience Engineering in Practice, Volume 2 Dr Christopher P Nemeth, Professor Erik Hollnagel, 2014-11-28 This volume describes how safety can change from being protective to being productive thereby improving the resilience of the system This is the fifth book published within the Ashgate Studies in Resilience Engineering series The first introduced resilience engineering broadly The second and third established the research foundation for the real world applications that then were described in the fourth volume Resilience Engineering in Practice The current volume continues this development by focusing on the role of resilience in the development of solutions

Technical Safety, Reliability and Resilience Ivo Häring, 2021-02-13 This book provides basics and selected advanced insights on how to generate reliability safety and resilience within socio technical system developments The focus is on working definitions fundamental development processes safety development processes and analytical methods on how to support such schemes The method families of Hazard Analyses Failure Modes and Effects Analysis and Fault Tree Analysis are explained in detail Further main topics include semiformal graphical system modelling requirements types hazard log reliability prediction standards techniques and measures for reliable hardware and software with respect to systematic and statistical errors and combination options of methods The book is based on methods as applied during numerous applied research and development projects and the support and auditing of such projects including highly safety critical automated and autonomous systems Numerous questions and answers challenge students and practitioners

Resilience Engineering in Practice Erik Hollnagel, 2011 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 become 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

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Proceedings of the Institution of Civil Engineers ,2009

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