

Atex Explosive Atmospheres Risk Assessment Control And Compliance Springer Series In Reliability Engineering

Process Safety Calculations, Second Edition remains to be an essential guide for students and practitioners in process safety engineering who are working on calculating and predicting risks and consequences. The book focuses on calculation procedures based on basic chemistry, thermodynamics, fluid dynamics, conservation equations, kinetics and practical models. It provides helpful calculations to demonstrate compliance with regulations and standards, such as Seveso directive(s)/COMAH, CLP regulation, ATEX directives, PED directives, REACH regulation, OSHA/NIOSH and UK ALARP, along with risk and consequence assessment, stoichiometry, thermodynamics, stress analysis and fluid-dynamics. This fully revised, updated and expanded second edition follows the same organization as the first, including the original three main parts, Fundamentals, Consequence Assessment and Quantitative Risk Assessment. However, the latter part is significantly expanded, including an appendix consisting of five fundamental thematic areas belonging to the risk assessment framework, including in-depth calculations methodologies for some fundamental monothematic macro-areas of process safety. Revised, updated and expanded new edition that includes newly developing areas of process safety that are relevant to QRA Provides engineering fundamentals to enable readers to properly approach the subject of process safety Includes a remarkable and broad numbers of calculation examples, which are completely resolved and fully explained Develops the QRA subject, consistently with the methodology applied in the big projects

This book reviews the assessment of industrial biotechnology products and processes from a sustainable perspective. Industrial Biotechnology is a comparably young field which comes along with high expectations with regard to sustainability issues. These stem from the promise of reducing greenhouse gas emissions and replacing fossil resources in the near or later future and using green technology, i.e. more environmentally friendly technologies. The intended economic, ecological and social benefits, however, need to be proven, resulting in a variety of challenges, both from a methodological and application point of view. In this book, specific assessment and application topics of industrial biotechnology are addressed, highlighting challenges and solutions for both developers and users of assessment methods. In twelve chapters, experts in their particular fields define the scope, characterize industrial biotechnology and show in their contributions the state of the art, challenges and prospects of assessing industrial biotechnology products and processes. The chapter 'Societal and Ethical Aspects of Industrial Biotechnology' of this book is available open access under a CC BY 4.0 license at link.springer.com

This book reports on advanced topics in the areas of wearable robotics research and practice. It focuses on new technologies, including neural interfaces, soft wearable robots, sensors and actuators technologies, discussing industrially and medically-relevant issues, as well as legal and ethical aspects. It covers exemplary case studies highlighting challenges related to the implementation of wearable robots for different purposes, and describing advanced solutions. Based on the 5th International Symposium on Wearable Robotics, WeRob2020, and on WearRacon Europe 2020, which were both held online on October 13-16, 2020, the book addresses a large audience of academics and professionals working in for the government, in the industry, and in medical centers, as well as end-users alike. By merging together engineering, medical, ethical and industrial perspectives, it offers a multidisciplinary, timely snapshot of the field of wearable technologies.

Plant Hazard Analysis and Safety Instrumentation Systems is the first book to combine coverage of these two integral aspects of running a chemical processing plant. It helps engineers from various disciplines learn how various analysis techniques, international standards, and instrumentation and controls provide layers of protection for basic process control systems, and how, as a result, overall system reliability, availability, dependability, and maintainability can be increased. This step-by-step guide takes readers through the development of safety instrumented systems, also including discussions on cost impact, basics of statistics, and reliability. Swapan Basu brings more than 35 years of industrial experience to this book, using practical examples to demonstrate concepts. Basu links between the SIS requirements and process hazard analysis in order to complete SIS lifecycle implementation and covers safety analysis and realization in control systems, with up-to-date descriptions of modern concepts, such as SIL, SIS, and Fault Tolerance to name a few. In addition, the book addresses security issues that are particularly important for the programmable systems in modern plants, and discusses, at length, hazardous atmospheres and their impact on electrical enclosures and the use of IS circuits. Helps the reader identify which hazard analysis method is the most appropriate (covers ALARP, HAZOP, FMEA, LOPA) Provides tactics on how to implement standards, such as IEC 61508/61511 and ANSI/ISA 84 Presents information on how to conduct safety analysis and realization in control systems and safety instrumentation

Understanding, Controlling, Applying

A System Perspective for Assessing and Avoiding Low-Probability, High-Consequence Events

Practical Electrical Equipment and Installations in Hazardous Areas

Production, Storage, Application

Sustainability and Life Cycle Assessment in Industrial Biotechnology

Process Machinery Safety and Reliability

Guidelines for Combustible Dust Hazard Analysis

Methods in Chemical Process Safety, Volume Three, addresses the most important challenges, recent advancements and contributions in chemical process safety. The work helps researchers and professionals obtain guidance on the selection and practice of chemical process safety methods. Chapters in the book cover Experimental Methods, Hazard Identification, Risk Assessment, Safety Measures, Regulations, Guidelines and Standards, Emerging/Unique Scenarios, and more. Users will find a complete guide that presents tactics in process safety management that are now globally recognized as the primary approach for establishing a high level of safety in operations. As process safety is now a disciplined framework for managing the integrity of operating systems and processes handling hazardous substances, and because continued occurrence of major losses have had a significant impact on the industry's approaches to modern process safety, this book is a must have for those in the industry. Acquaints the reader/researcher with the fundamentals of process safety Provides the most recent advancements and contributions in each topic from a practical point-of-view Gives readers the views/opinions of experts on each topic

Dynamic Risk Assessment and Management of Domino Effects and Cascading Events in the Process Industry provides insights into emerging and state-of-the-art methods for the dynamic assessment of risk and safety barrier performance in the framework of domino effect risk management. The book presents methods and tools to manage the risk of cascading events involving the chemical and process industry. It is an ideal reference for both safety and security managers, industrial risk stakeholders, scientists and practitioners. In addition, laymen may find the state-of-the-art methods concerning domino effects (large-scale accidents) and how to prevent their propagation an interesting topic of study. Includes dynamic hazard and risk assessment methods Presents methods for safety barrier performance assessment Addresses the effect of harsh environment on domino risk assessment Relates physical security in relation to domino effects Includes innovative methods and tools

This collection of papers from a prestigious IMechE conference looks at the latest innovations and techniques from experts in the field of rotating machinery from industry and academia. Reflecting latest developments in air, gas, refrigeration and related systems, these conference transactions will be of vital importance to all those equipment manufacturers, suppliers, users, and research organizations who wish to be well informed of developments and advances in this important field of engineering. Topics covered: Scroll Compressors Refrigeration Environmental Issues Screw Compressors Reciprocating Compressors Expanders Centrifugal Compressors Novel Designs Linear Compressors Numerical Modelling Operation and Maintenance The revised European EC Machinery Directive includes a large number of amendments which are particularly significant for practical engineering applications. They include new machinery definitions and modified applications, changes in conformity assessment for annex IV machinery, new CE-marking for safety components etc. These changes will generate many user questions which this guide can help to answer. It contains the full text of the directive and uses illustrations to provide a detailed introduction to this regulatory document. Its experienced team of authors, made up of engineers and jurists, ensures its usefulness in practically implementing the directive.

Seals and Sealing Handbook

Developments in Handling and Processing Technologies

Water and Environment Journal

Explosion Protection

Safety, Reliability and Risk Analysis

Risk-Based Approach to Hazardous Area Classification

Hydrogen Safety for Energy Applications

Seals and Sealing Handbook, 6th Edition provides comprehensive coverage of sealing technology, bringing together information on all aspects of this area to enable you to make the right sealing choice. This includes detailed coverage on the seals applicable to static, rotary and reciprocating applications, the best materials to use in your sealing systems, and the legislature and regulations that may impact your sealing choices. Updated in line with current trends this updated reference provides the theory necessary for you to select the most appropriate seals for the job and with its 'Failure Guide', the factors to consider should anything go wrong. Building on the practical, stepped approach of its predecessor, **Seals and Sealing Handbook, 6th Edition** remains an essential reference for any engineer or designer who uses seals in their work. A comprehensive reference covering a broad range of seal types for all situations, to ensure that you are able to select the most appropriate seal for any given task Includes supporting case studies and a unique 'Failure Guide' to help you troubleshoot if things go wrong New edition includes the most up-to-date information on sealing technology, making it an essential reference for anyone who uses seals in their work

This book details how safety (i.e. the absence of unacceptable risks) is ensured in areas where potentially explosive atmospheres (ATEX) can arise. The book also offers readers essential information on how to comply with the newest (April 2016) EU legislation when the presence of ATEX cannot be avoided. By presenting general guidance on issues arising out of the EU ATEX legislation - especially on zone classification, explosion risk assessment, equipment categorization, Ex-marking and related technical/chemical aspects - the book provides equipment manufacturers, responsible employers, and others with the essential knowledge they need to be able to understand the different - and often complicated - aspects of ATEX and to implement the necessary safety precautions. As such, it represents a valuable resource for all those concerned with maintaining high levels of safety in ATEX environments.

A report presenting an approach applicable to classification of upstream and downstream petroleum facilities by consideration of the individual point source procedure in Chapter 5 of the Area Classification Code.

Safety, Reliability and Risk Analysis. Theory, Methods and Applications contains the papers presented at the joint ESREL (European Safety and Reliability) and SRA-Europe (Society for Risk Analysis Europe) Conference (Valencia, Spain, 22-25 September 2008). The book covers a wide range of topics, including: Accident and Incident Investigation; Crisi

Analysing the Past, Planning the Future

Keep it Running, Keep it Safe

The New EC Machinery Directive 2006

Chemical Engineering and Chemical Process Technology - Volume IV

ATEX - Explosive Atmospheres

The Process, Its Safety and the Environment--getting it Right! : a Three-day Symposium

The Risk Management of Safety and Dependability

This book describes how to conduct a Combustible Dust Hazard Analysis (CDHA) for processes handling combustible solids. The book explains how to do a dust hazard analysis by using either an approach based on compliance with existing consensus standards, or by using a risk based approach. Worked examples in the book help the user understand how to do a combustible dust hazards analysis.

This book covers all aspects of containment technology in depth and the latest developments in this exciting field are introduced. This book is a key publication to planning engineers, production managers and those interested in getting a picture of the different applications of the isolator technology. References on literature, laws, norms and guidelines will support the reader to become acquainted with the containment technology.

The construction industry is working hard to improve its health and safety record. It is now essential for employers and employees to be aware of the health and safety issues that concern them and demand for qualifications in this area is increasing. The coverage of this book has been directly matched to the Certificate course in Construction Safety and Health from NEBOSH. However, the comprehensive coverage of health and safety topics in a construction context make it relevant for other courses in Construction Design and Management, Construction Safety and Health, and the Built Environment, both in the UK and overseas. The text is highly illustrated in full colour, easy to read and includes self-assessment questions taken directly from NEBOSH examinations as well as a study skills chapter. The text is also supported with checklists, report forms and record sheets, making it a valuable reference tool for construction managers, supervisors, designers, building and civil engineers to consult on the day to day issues of health and safety. In its second edition the book has been updated to incorporate changes in legislation, regarding: * Noise * Vibration * COSHH * Work at Height * Fire Safety * Construction Design and Management * Fully covers the syllabus for the NEBOSH National Certificate in Construction Safety and Health * Student-friendly presentation in full colour packed with illustrations and photographs * Includes a summary of the main legislation, ideal as a reference for students as well as for all managers in the construction industry

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.

Hazards XX

Plant Hazard Analysis and Safety Instrumentation Systems

Process Safety Calculations

Powders and Solids

Risk Assessments and Safe Machinery

Hazards XIX

2nd International Conference

Keep it Running, Keep it Safe is based upon the highly regarded Process Machinery Safety and Reliability by the same author. Keep it Running, Keep it Safe, is an invaluable ready reference for day to day work in the process industries. The book outlines a procedure for the assessment of machinery safety and reliability, covering: Hazard assessment Legal requirements Reliability hazards and failure modes Control of Hazards Health and safety compliance It provides a general interpretation of the relevant legislation and identifies safety measures and procedures for the assessment of equipment safety and reliability. With liberal use of case studies and real examples, it explains complex issues in a direct and straightforward style. Keep it Running, Keep it Safe offers a comprehensive understanding of the issues and techniques involved in improving safety and reliability with the potential to make a real difference to everyday engineering practice for plant managers, plant engineers, maintenance engineers, loss prevention engineers, engineering designers, inspectors, and all those concerned with the safe and efficient operation of engineering plant.

Hydrogen Safety highlights physiological, physical, and chemical hazards associated with hydrogen production, storage, distribution, and use systems. It also examines potential accident scenarios that could occur with hydrogen use under certain conditions. The number of potential applications for hydrogen continues to grow—from cooling power station generators to widespread commercial use in hydrogen fuel-cell vehicles and other fuel-cell applications. However, this volatile substance poses unique challenges, including easy leakage, low ignition energy, a wide range of combustible fuel-air mixtures, buoyancy, and its ability to embrittle metals that are required to ensure safe operation. Focused on providing a balanced view of hydrogen safety—one that integrates principles from physical sciences, engineering, management, and social sciences—this book is organized to address questions associated with the hazards of hydrogen and the ensuing risk associated with its industrial and public use. What are the properties of hydrogen that can render it a hazardous substance? How have these hazards historically resulted in undesired incidents? How might these hazards arise in the storage of hydrogen and with its use in vehicular transportation? The authors address issues of inherently safer design, safety management systems, and safety culture. They highlight hydrogen storage facilities —which pose greater hazards because of the increased quantities stored and handled—and the dangers of using hydrogen as a fuel for transport. Presented experiments are included to verify computer simulations with the aid of computational fluid dynamics (CFD) of both gaseous and liquefied hydrogen. The book also provides an overview of the European Commission (EC) Network of Excellence for Hydrogen Safety (HySafe) and presents various case studies associated with hydrogen and constructional materials. It concludes with a brief look at future research requirements and current legal requirements for hydrogen safety.

Risk Analysis and Control for Industrial Processes - Gas, Oil and Chemicals provides an analysis of current approaches for preventing disasters, and gives readers an overview on which methods to adopt. The book covers safety regulations, history and trends, industrial disasters, safety problems, safety tools, and capital and operational costs versus the benefits of safety, all supporting project decision processes. Tools covered include present day array of risk assessment, tools including HAZOP, LOPA and ORA, but also new approaches such as System-Theoretic Process Analysis (STPA), Blended HAZID, applications of Bayesian data analytics, Bayesian networks, and others. The text is supported by valuable examples to help the reader achieve a greater understanding on how to perform safety analysis, identify potential issues, and predict the likelihood they may appear. Presents new methods on how to identify hazards of low probability/high consequence events Contains information on how to develop and install safeguards against such events, with guidance on how to quantify risk and its uncertainty, and how to make economic and

societal decisions about risk Demonstrates key concepts through the use of examples and relevant case studies

The issue of risk should be embedded into the mindset of every engineer and manager to improve safety and dependability. Companies can be held accountable through law when a gross failing in health and safety management has fatal consequences. Here risk management, the organisational structure required and the main factors needed for its successful execution are explored. What risks must be managed as a legal requirement? How is risk quantified? What methods can be used to reduce risk? Such questions are addressed, alongside case histories of disasters to illustrate failures in risk management. In an easy-to-read and accessible way, The risk management of safety and dependability presents the key factors involved in successful risk management, so that even non-experts in small and medium-sized organisations, as well as engineers and managers, can apply sound safety and dependability principles. Complies with the recommendations of the Engineering Technology Board Assesses ways of recognising hazards and procedures for reducing risk in the design of processes, plant and machinery Provides detailed accounts of three major disasters and describes the lessons to be learnt in relation to risk management

Process Safety : Fulfilling Our Responsibilities

Grain & Feed Milling Technology

Mathematics—Advances in Research and Application: 2012 Edition

Safety and Reliability of Complex Engineered Systems

Ensuring Compliance with the EU Directives

Process Safety and Environmental Protection : Harnessing Knowledge, Challenging Complacency

Containment Technology

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.

This book describes the prerequisites for the placing on the market and the safe use of machinery in compliance with the relevant EU Directives, especially the Machinery Directive 2006/42. It provides readers with high-level knowledge concerning the Essential Health and Safety Requirements (EHSR) that machinery must fulfill. The approach and principles of the Machinery Directive were most recently made worldwide acknowledged in the ILO code of practice on safe machinery, released in 2013. The book addresses that code, as well as providing valuable insight into other EU Product and Workplace legislation. Focusing on the key aspect of safe machinery, the [machinery safety risk assessment], which allows readers to better understand the more difficult aspects of risk assessments, the book equips readers to tackle problems at the manufacturing stage and in different use scenarios, introducing them to risk reduction techniques and functional safety aspects.

These proceedings illustrate the challenges facing the process safety professional in Europe when implementing standards and legal requirements in the area of explosion protection.

Wasserstoff in der Fahrzeugtechnik bietet einen allgemeinen Überblick über die verschiedenen Aspekte von Eigenschaften, Erzeugung, Speicherung und Anwendung von Wasserstoff. Schwerpunkte liegen auf der Thermodynamik der Speicherung von Wasserstoff sowie auf der Anwendung in der Fahrzeugtechnik und in der Energietechnik. Mit Bezug zu Forschungsvorhaben an der TU Graz und dem HyCentA wird der aktuelle Stand der Technik fundiert dargestellt. Als eigener Abschnitt wurde in dieser Auflage die Brennstoffzelle zur Stromerzeugung für Elektroantriebe ergänzt. Ein Verfahren zur Wasserstoffproduktion durch Pyrolyse aus Glycerin wurde neu aufgenommen. Ergänzt wurden Abschnitte über aktuelle Anwendungen, über Verbrennungsmotoren für Gemische aus Wasserstoff und Methan, über Werkstoffe sowie Fragen von Wirkungsgrad und CO2-Emissionen.

Dynamic Risk Assessment and Management of Domino Effects and Cascading Events in the Process Industry

Hazards XV

Hazards XVIII

Proceedings of the 5th International Symposium on Wearable Robotics, WeRob2020, and of WearRAcon Europe 2020, October 13/16, 2020

Dust Explosions

Engineering Design, Risk Assessment, and Codes and Standards

Process Development, Modeling, Optimization, Control and Process Management

ATEX—Explosive AtmospheresRisk Assessment, Control and ComplianceSpringer

Contains papers and posters presented at Hazards XVII.

Written by world-renowned experts on the topic with many years of research and consultancy experience, this invaluable book provides the practitioners' perspective, outlining the dangers and benefits of static electricity in industry. The first chapter reviews the fundamentals of understanding fires and explosions in general and electricity-induced ignition in particular, while the following chapter is dedicated to the origins of static electricity in industrial settings, such as in flowing gases and the transport of disperse systems. The major part of the text deals with measuring static electricity, elimination of unwanted charges and hazard prevention under different conditions. It concludes with an overview of practical applications in chemical and mechanical engineering. Throughout the book, real-life case studies illustrate the fundamental aspects so as to further an understanding of how to control and apply static electricity and thus reduce material damages as well as increase occupational safety. Plus additional movie sequences on the dedicated website showing static electricity in action.

Hydrogen Safety for Energy Applications: Engineering Design, Risk Assessment, and Codes and Standards presents different aspects of contemporary knowledge regarding the hazards, risks and safety connected with hydrogen systems. Sections cover the main hydrogen technologies and explore the scientific aspects of possible sources and consequences of accidental events that can occur when hydrogen is used, including in its vehicular applications. Risk assessment, as well as the safety measures/safety barriers applicable in such situations are also considered. Finally, a short survey concerning legal aspects is presented. Provides factual material, such as models, correlations, tables, nomograms and formulas that can be used to perform evaluations and propose mitigation measures Presents reference data and detailed descriptions and guidelines for contemporary risk assessment methodologies Covers accident phenomena and consequences of accidents specific to hydrogen systems in a widely and applicable way for a wide variety of hydrogen activities

Theory, Methods and Applications (4 Volumes + CD-ROM)

A Guide for Directors, Managers and Engineers

Wearable Robotics: Challenges and Trends

Hydrogen in Automotive Engineering

Hazards XVI

Compressors and Their Systems

Hydrogen Safety

The chemical industry processes a high proportion of its products in powder form, thus making the efficient, effective and safe handling and processing of prime importance. Powders and Solids: Developments in Handling and Processing Technologies brings the reader right up-to-date with both newly-introduced commercial practices and results of recent fundamental research on the behaviour of model powders. Case studies are also included. Commencing with an overview of developments in the health and safety aspects of handling powders, the book then goes on to look at the new technologies being applied to powders and powder handling, followed by aspects of measurement and control in powder handling. It will be essential reading for all industrial practitioners, particularly those in the pharmaceutical industry, as well as all engineers working either in industry or research on processes involving solid and powder handling.

Mathematics—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Mathematics. The editors have built Mathematics—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Mathematics in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Mathematics—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Presents papers on topics: safety management, safe process design, issues from Seveso/COMAH, compliance with standards, transport and storage, chemical reactions, risk assessment and analysis, human factors and behaviour.

This book provides the reader with an understanding of the hazards involved in using electrical equipment in Potentially Explosive Atmospheres. It is based on the newly adopted international IEC79 Series of Standards that are now harmonizing and replacing older national Standards. Explosion-proof installations can be expensive to design, install and operate. The strategies and techniques described in this book can significantly reduce costs whilst maintaining plant safety. The book explains the associated terminology and its correct use - from Area Classification through to the selection of explosion-protected electrical apparatus, describing how protection is achieved and maintained in line with these international requirements. The IEC standards require that engineering staff and their management are trained effectively and safely in Hazardous Areas, and this book is designed to help fulfill that need. A basic understanding of instrumentation and electrical theory would be of benefit to the reader, but no previous knowledge of hazardous area installation is required. * An engineer's guide to the hazards and best practice for using electrical equipment in Potentially Explosive Atmospheres. * Fully in line with the newly adopted international standards, the IEC79 series. * Clear explanations of terminology and background information make this the most accessible book on this subject.

The Journal

Guidelines on the Application of the European Parliament and Council Directive 94/9/EC of 23 March 1994 on the Approximation of the Laws of the Member States Concerning Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres

Practical Understanding of Recent Standards and New Legislation in Process Safety

Dust Explosion Prevention and Protection

ATEX Guidelines

Process Safety - Sharing Best Practice

Static Electricity

Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty Encyclopedias. Chemical engineering is a branch of engineering, dealing with processes in which materials undergo changes in their physical or chemical state. These changes may concern size, energy content, composition and/or other application properties. Chemical engineering deals with many processes belonging to chemical industry or related industries (petrochemical, metallurgical, food, pharmaceutical, fine chemicals, coatings and colors, renewable raw materials, biotechnological, etc.), and finds application in manufacturing of such products as acids, alkalis, salts, fuels, fertilizers, crop protection agents, ceramics, glass, paper, colors, dyestuffs, plastics, cosmetics, vitamins and many others. It also plays significant role in environmental protection, biotechnology, nanotechnology, energy production and sustainable economical development. The Theme on Chemical Engineering and Chemical Process Technology deals, in five volumes and covers several topics such as: Fundamentals of Chemical Engineering; Unit Operations - Fluids; Unit Operations - Solids; Chemical Reaction Engineering; Process Development, Modeling, Optimization and Control; Process Management; The Future of Chemical Engineering; Chemical Engineering Education; Main Products, which are then expanded into multiple subtopics, each as a chapter. These five volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

Experts from the fields of process safety and environmental protection discuss their work.

Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference, ESREL 2015, held 7–10 September 2015 in Zurich, Switzerland. It includes about 570 papers accepted for presentation at the conference.

These contributions focus on theories and methods in the area of risk, safety and

Introduction to Health and Safety in Construction

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

ESREL 2015

Hazards XVII

Risk Assessment, Control and Compliance

Risk Analysis and Control for Industrial Processes – Gas, Oil and Chemicals