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SINTEF has developed a method for quantifying the reliability/availability of safety instrumented systems (SIS), called the PDS method. The method is widely used in the petroleum industry, but is also applicable to other business sectors.

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PDS Method Handbook, 2010 Edition 3 PREFACE The " PDS Forum " is a co-operation between oil companies, engineering companies, consultants, vendors and researchers, with a special interest in reliability of safety instrumented systems. PDS method and data handbooks were issued in 1998, 2003, 2004 and 2006, and the notation and approach have gradually been brought in line with functional ...

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During the last decade there have been increasing societal concerns over sustainable developments focusing on the conservation of the environment, the welfare and safety of the individual and at the same time the optimal allocation of available natural and financial resources. As a consequence the methods of risk and reliability analysis are becomi

This evidence-based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease. Chapters cover nutrition assessment; macro- and micronutrient absorption; malabsorption; food allergies; prebiotics and dietary fiber; probiotics and intestinal microflora; nutrition and GI cancer; nutritional management of reflux; nutrition in IBS and IBD; nutrition in acute and chronic pancreatitis; enteral nutrition; parenteral nutrition; medical and endoscopic therapy of obesity; surgical therapy of obesity; pharmacologic nutrition, and nutritional counseling.

Offshore Risk Assessment was the first book to deal with quantified risk assessment (QRA) as applied specifically to offshore installations and operations. Risk assessment techniques have been used for more than three decades in the offshore oil and gas industry, and their use is set to expand increasingly as the industry moves into new areas and faces new challenges in older regions. This updated and expanded third edition has been informed by a major R&D program on offshore risk assessment in Norway and summarizes research from 2006 to the present day. Rooted with a thorough discussion of risk metrics and risk analysis methodology, subsequent chapters are devoted to analytical approaches to escalation, escape, evacuation and rescue analysis of safety and emergency systems. Separate chapters analyze the main hazards of offshore structures: fire, explosion, collision, and falling objects as well as structural and marine hazards. Risk mitigation and control are discussed, as well as an illustration of how the results from quantitative risk assessment studies should be presented. The third second edition has a stronger focus on the use of risk assessment techniques in the operation of offshore installations. Also decommissioning of installations is covered. Not only does Offshore Risk Assessment describe the state of the art of QRA, it also identifies weaknesses and areas that need further development. This new edition also illustrates applications or quantitative risk analysis methodology to offshore petroleum applications. A comprehensive reference for academics and students of marine/offshore risk assessment and management, the book should also be owned by professionals in the industry, contractors, suppliers, consultants and regulatory authorities.

The book is a guide for Layers of Protection Analysis (LOPA)practitioners. It explains the onion skin modeland in particular, how it relates to the use of LOPA and the needfor non-safety instrumented independent protection layers. Itprovides specific guidance on Independent Protection Layers (IPLs)that are not Safety Instrumented Systems (SIS). Using theLOPA methodology, companies typically take credit for riskreductions accomplished through non-SIS alternatives; i.e.administrative procedures, equipment design, etc. Itaddresses issues such as how to ensure the effectiveness andmaintain reliability for administrative controls or " inherently safer, passive " concepts. This book will address how the fields of Human ReliabilityAnalysis, Fault Tree Analysis, Inherent Safety, Audits andAssessments, Maintenance, and Emergency Response relate to LOPA andSIS. The book will separate IPL ' s into categories such as thefollowing: Inherent Safety eliminates a scenario or fundamentally reduces a hazard Preventive/Proactive prevents initiating event from occurring such as enhancedmaintenance Preventive/Active stops chain of events after initiating event occurs but beforean incident has occurred such as high level in a tank shutting offthe pump. Mitigation (active or passive) minimizes impact once an incident has occurred such as closingblock valves once LEL is detected in the dike (active) or the dikepreventing contamination of groundwater (passive).

Within the last fifty years the performance requirements for technical objects and systems were supplemented with: customer expectations (quality), abilities to prevent the loss of the object properties in operation time (reliability and maintainability), protection against the effects of undesirable events (safety and security) and the ability to

Gas and Oil Reliability Engineering: Modeling and Analysis, Second Edition, provides the latest tactics and processes that can be used in oil and gas markets to improve reliability knowledge and reduce costs to stay competitive, especially while oil prices are low. Updated with relevant analysis and case studies covering equipment for both onshore and offshore operations, this reference provides the engineer and manager with more information on lifetime data analysis (LDA), safety integrity levels (SILs), and asset management. New chapters on safety, more coverage on the latest software, and techniques such as ReBi (Reliability-Based Inspection), ReGBI (Reliability Growth-Based Inspection), RCM (Reliability Centered Maintenance), and LDA (Lifetime Data Analysis), and asset integrity management, make the book a critical resource that will arm engineers and managers with the basic reliability principles and standard concepts that are necessary to explain their use for reliability assurance for the oil and gas industry. Provides the latest tactics and processes that can be used in oil and gas markets to improve reliability knowledge and reduce costs Presents practical knowledge with over 20 new internationally-based case studies covering BOPs, offshore platforms, pipelines, valves, and subsea equipment from various locations, such as Australia, the Middle East, and Asia Contains expanded explanations of reliability skills with a new chapter on asset integrity management, relevant software, and techniques training, such as THERP, ASEP, RBI, FMEA, and RAMS

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

Methods in Chemical Process Safety, Volume Four focuses on the process of learning from experience, including elements of process safety management, human factors in the chemical process industries, and the regulation of chemical process safety, including current approaches. Users will find this book to be an informative tool and user manual for process safety for a variety of professionals with this new release focusing on Advanced Methods of Risk Assessment and Management, Logic Based Methods for Dynamic Risk Assessment, Bayesian Methods for Dynamic Risk Assessment, Data Driven Methods, Rare Event Risk Assessment, Risk Management and Multi Criteria, and much more. Helps acquaint the reader/ researcher with the fundamentals of process safety Provides the most recent advancements and contributions on the topic from a practical point-of-view Presents users with the views/opinions of experts in each topic Includes a selection of authors who are leading researchers and/or practitioners for each given topic

The safe and reliable performance of many systems with which we interact daily has been achieved through the analysis and management of risk. From complex infrastructures to consumer durables, from engineering systems and technologies used in transportation, health, energy, chemical, oil, gas, aerospace, maritime, defence and other sectors, the management of risk during design, manufacture, operation and decommissioning is vital. Methods and models to support risk-informed decision-making are well established but are continually challenged by technology innovations, increasing interdependencies, and changes in societal expectations. Risk, Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference (ESREL 2016), held at the University of Strathclyde in Glasgow, Scotland (25—29 September 2016). Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to specific areas. Papers include domain specific applications as well as general modelling methods. Papers cover evaluation of contemporary solutions, exploration of future challenges, and exposition of concepts, methods and processes. Topics include human factors, occupational health and safety, dynamic and systems reliability modelling, maintenance optimisation, uncertainty analysis, resilience assessment, risk and crisis management.

Presents the theory and methodology for reliabilityassessments of safety-critical functions through examples from awide range of applications Reliability of Safety-Critical Systems: Theory andApplications provides a comprehensive introduction toreliability assessments of safety-related systems based onelectrical, electronic, and programmable electronic (E/E/PE)technology. With a focus on the design and development phases ofsafety-critical systems, the book presents theory and methodsrequired to document compliance with IEC 61508 and the associatedsector-specific standards. Combining theory and practical applications, Reliability ofSafety-Critical Systems: Theory and Applications implements keysafety-related strategies and methods to meet quantitative safetyintegrity requirements. In addition, the book details a variety ofreliability analysis methods that are needed during all stages of asafety-critical system, beginning with specification and design andadvancing to operations, maintenance, and modification control. Thekey categories of safety liife-cycle phases are featured, includingstrategies for the allocation of reliability performance requirements; assessment methods in relation to design; andreliability quantification in relation to operation andmaintenance. Issues and benefits that arise from complex moderntechnology developments are featured, as well as: Real-world examples from large industry facilities with majoraccident potential and products owned by the general public such ascars and tools Plentiful worked examples throughout that provide readers witha deeper understanding of the core concepts and aid in the analysisand solution of common issues when assessing all facets ofsafety-critical systems Approaches that work on a wide scope of applications and can beapplied to the analysis of any safety-critical system A brief appendix of probability theory for reference With an emphasis on how safety-critical functions are introducedinto systems and facilities to prevent or mitigate the impact of anaccident, this book is an excellent guide for professionals,consultants, and operators of safety-critical systems who carry outpractical, risk, and reliability assessments of safety-criticalsystems. Reliability of Safety-Critical Systems: Theory andApplications is also a useful textbook for courses inreliability assessment of safety-critical systems and reliabilityengineering at the graduate-level, as well as for consultingcompanies offering short courses in reliability assessment ofsafety-critical systems.

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