3D RISK MANAGEMENT FOR HYDROGEN INSTALLATIONS (Hy3DRM)

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ABSTRACT

This paper introduces the 3D Risk Management (3DRM) concept for hydrogen installations (Hy3DRM). The 3DRM framework entails an integrated solution for risk management that combines a detailed sitespecific 3D geometry model for a system, a computational fluid dynamics (CFD) tool for simulating accident scenarios involving dispersion, fire and explosions, and a methodology for frequency analysis and quantitative risk assessment (QRA). In order to reduce calculation time, and to cover escalating accident scenarios such as structural collapse and projectiles, the CFD-based consequence analysis can be complemented with reduced order models or finite element analysis (FEA). The paper outlines the background for 3DRM and presents a proof-of-concept risk assessment for a hypothetical hydrogen filling station. This first prototype focuses on dispersion, fire and explosion scenarios resulting from loss of containment of gaseous hydrogen. The approach adopted here combines consequence assessments obtained with the CFD tool FLACS-Hydrogen from Gexcon, and event frequencies estimated with the Hydrogen Risk Assessment Models (HyRAM) tool from Sandia, to generate 3D risk contours for explosion pressure and radiation loads. For a given population density and set of harm criteria it is straightforward to extend the analysis to include personnel risk, as well as risk-based design such as detector optimization. The discussion outlines main challenges and inherent limitations of the 3DRM concept, as well as possibilities and prospects for future development.

I. INTRODUCTION

1.1 Hazards and safety

Extraction, conversion, storage and use of energy play a fundamental role for the advancement of modern societies, and will continue to do so in the foreseeable future. Humankind will consume energy commodities at a growing rate due to population growth and improvements in the standard of living. While the global reserves of fossil fuels diminish, continued release of carbon dioxide on a massive scale is likely to influence the global climate. Hence, the energy infrastructure needs a shift towards increased use of renewable energy sources, such as wind, hydroelectric and solar, as well as more sustainable use of conventional hydrocarbons (e.g. carbon capture and storage). In this perspective, the International Energy Agency (IEA) [1] and the European Commission (EC) [2] foresee that hydrogen will play an increasingly important role as energy carrier, providing environment-friendly energy to endusers. However, widespread acceptance and use of hydrogen in society will require significant progress in the field of hydrogen safety - the discipline of science and engineering that deals with safe production, handling and use of hydrogen in industry and society in general [3]. Several characteristic properties of hydrogen differ significantly from conventional fuels: a tendency to cause embrittlement in metals, very low boiling point and density, very low ignition energy, wide flammability range, high rate of combustion, and a propensity to undergo deflagration to detonation-transition (DDT). Hence, fires and explosions represent a significant hazard for hydrogen installations, and special measures are required for reducing the risk to an acceptable level. This applies to relatively simple systems, such as fuel cells, vehicles and filling stations, as well as complex industrial facilities, such as nuclear power plants. The recurrence of low-probability high-consequence events in complex systems is well documented and possibly 'normal' [4]. Common features of many industrial disasters include a relatively limited understanding of the actual hazard prior to the event, an escalating chain of sub-events, severe losses, and significant changes to safety standards and legislation for industry [5].

Reliability Of Hydroreclamation Installations

Boris Stepanovich Maslov

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Reliability of Water Reclamation Structures T∏S∏otne Evgen'evich Mirt∏s∏khulava,1979 **Integrated Approach to** Environmental Data Management Systems Nilgun B. Harmanciogammalu, M.N. Alpaslan, S.D. Ozkul, V.P. Singh, 2012-12-06 An integrated approach to environmental data management is necessitated by the complexity of the environmental problems that need to be addresses coupled with the interdisciplinary approach that needs to be adopted to solve them Agenda 21 of the Rio Environmental Conference mandated international programmes and organizations to take steps to develop common data and information management plans and steps have been taken in this direction. The key word that defines the framework of the present book is integration. The book establishes the basics of integrated approaches and covers environmental data management systems within that framework covering all aspects of data management from objectives and constraints design of data collection networks statistical and physical sampling remote sensing and GIS databases reliability of data data analysis and the transformation of data into information Conservation of the Biological Diversity as a Prerequisite for Sustainable Development in the Black Sea Region V. Kotlyakov, M. Uppenbrink, V. Metreveli, 2012-12-06 This volume is a collection of reports presented at the International NATO Advanced Research Workshop Conservation of the Biological Diversity as a Prerequisite for Sustainaible Development of the Black Sea Region The seminar was held at Batumi Kobuleti Georgia on the Black Sea during October 5 12 1996 with participants from the countries of the Black Sea Region Georgia Russia the Ukraine Turkey Bulgaria Romania as well as Germany Italy and the United States of America The Black Sea Region is an essential and unique part of southern Europe because of its geographical cultural and historical features It is the cradle of European civilisation together with Greece and Rome For centuries it neighboured onto and interacted with the cultures of the northern and southern Mediterranean the Christian and Moslim worlds and was the route of conquerors and migrations of whole nations Here are closely interwoven the cultures and customs of nations economic and trade relations the history of wars and civilised relations of neighbouring countries

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EOLSS which is an integrated compendium of twenty one Encyclopedias The theme on Agricultural Land Improvement Amelioration and Reclamation has two volumes with contributions from distinguished experts in the field discusses amelioration practices and measures for radical improvement of unfavorable hydrologic soil and agroclimatic conditions with a view to the most efficient use of land resources The content of the theme is organized with state of the art presentations covering the following aspects of the subject Necessity of Development of Land Reclamation Irrigation Drainage of Farmlands Chemical Amelioration of Soils Biological and Agrotechnical Amelioration which are then expanded into multiple subtopics each as a chapter These 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 **Modelling in Geomechanics** F.P. Glushikhin, V.N. Pavlov, G.N. Kuznetsov, M.F. Shklyarskii, M.S. Zlotnikon, 2022-02-26 This study presents the fundamental principles of the theory of modelling with equivalent materials Recommendations are given for the computation and development of models as well as planning and conduction of experiments Experimentation techniques adopted for measurement of pressure stress strain as well as the methods employed for predicting geomechanical processes during mining for minerals Contemporary Reefs B.V. Preobrazhensky, 1993-06-01 A study of coral reefs is of great theoretical and practical importance in biology geology ecology and for understanding the history of ocean basins and seacoasts As a biological formation the reef represents one of the rare natural marine ecosystem models with the highest biological productivity Contemporary reef systems exert an extremely important influence on the overall biological control of the World Ocean Coral reefs have been recognized as one of the richest natural ecosystems and could be considered a prototype of a highly productive marine economy Rock Breakage by Blasting M.I. Petrosyan, 2018-10-08 Discussing rock breakage by blasting this text includes results of complex investigations into the rock breakage mechanism and the patterns of crack formation during a blast problems of modelling and principal equations linking the model with prototype and similarity criteria Drilling in the Permafrost B.B. Kudyashov, A.M. Yakovlev, 2022-03-02 First published in 1991 This volume presents a brief description of the natural conditions of the permafrost regions the properties of the permafrost and the processes occurring in it the fundamentals of the heat transfer processes during drilling and the service temperature conditions of the tool Methods and devices for cooling the flushing media principles of quality control of flushing agents and the technology and commercial viability of their use during drilling in the permafrost have been considered The main emphasis in this book is on the drilling technology which uses a variety of flushing agents The text also includes a description of the technology of utilizing grouting solutions the theory and practice of drilling with simultaneous freezing of weakly cohesive moist ground as well as jdrilling holes in the ice sheets of the circumpolar regions This book is intended for engineers and technical personnel engaged in drilling for exploratory geological works Migration in Seismic Prospecting E.A. Kozlov, 2022-03-02 This book first attempts to formulate the

problem of migration as a method applied in seismic prospecting and then to comprehend the unifying fundamentals of the numerous and various migration techniques now in use Guidelines are offered for the practical implementation of this method in complex structural as well as stratigraphic environment and the shortcomings and limitations that ought to be kept in mind when accomplishing migration or interpreting the resultant data are discussed It will prove of use not only to practising professionals engaged in designing or running migration procedures but also to those who would rather deal with Humic Substances of Soils and General Theory of Humification D.S. Orlov, 2020-08-26 This the results of migration work contains results of the latest studies on the composition structure and properties of humic substances which are the largest and most important component of organic matter of different types of soils It should be useful for soil scientists and nature conservationists Historical Geotectonics - Palaeozoic V.E. Khain, K.B. Seslavinsky, 2021-06-24 Translated from Russian this text looks at the development of the earth's crust in the Palaeozoic period and starts from the Vendian to the Late Cambrian period Moving on to include Ordovician to the mature stage of Caledonian and initial stage of development of Hercynian mobile belts Silurian Early Devonian The completion of development of the Caledonian and early mature and end stages of the Hercynian mobile belts the birth of Cimmerian mobile belts and ending with the Palaeozoic Role of Internal Friction in Dynamic Analysis of Structures A.A. Kusainov, A.I. Tseitlin, 2021-06-23 Improvement in the methods of analysis of structures machines aircrafts and ships is one of the most important problems in engineering today The computational aspects of this problem are being tackled successfully due to developments in computer science However for an adequate description of the physical properties of structures especially those made of newer non traditional materials it is essential to further study their behaviour under different load and kinematic conditions and to develop appropriate physical models that provide a comprehensive and correct description of the actual state of deformation The objective of this book is to adopt a unified approach for describing the large number of models of internal friction and to offer recommendations regarding the methods of taking it into account at the time of dynamic analysis It is also intended to provide a comprehensive analysis of the various models accompanied by detailed solutions of specific problems which could serve as examples for dynamic analysis of real structures taking into account the effect of internal friction **Continental Rift Formation and its Prehistory** A.V. Razvalyaev, 2021-02-25 Translation of the Russian edition of 1988 on peculiarities of the Arabian Nubian Shield in the Precambrian prerift magmatism in the Red Sea Rift zone evolution of the crust in rift forming zones Floods Dennis J. Parker, 2014-08-27 Floods occur in most parts of the world and range from being welcomed annual occurrences to natural disasters which have countless physical and societal impacts Floods presents the most comprehensive collection to date of new research providing a rich body of theory and experience and drawing together contributions from over fifty leading international researchers in the field An extensive range of case studies covering major floods and regions prone to flooding worldwide are included Fishes of the Sea of Japan and the Adjacent Areas of the Sea of Okhotsk and the

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