

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 site-specific 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.

1. 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 end-users. 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].

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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

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The results of theoretical and experimental investigations of seismic waves depending on natural and technological factors are discussed with methods for engineering calculations of industrial blast parameters **Environmental Modeling** Vijay P. Singh, Il Won Seo, Jung H. Sonu, 1999

Agricultural Land Improvement: Amelioration and Reclamation - Volume II Boris Stepanovich Maslov, 2009-09-23 Agricultural Land Improvement Amelioration and Reclamation theme is a component of Encyclopedia of Food and Agricultural Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems

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

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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 the results of migration

Humic Substances of Soils and General Theory of Humification D.S. Orlov,2020-08-26 This 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

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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

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Fishes of the Sea of Japan and the Adjacent Areas of the Sea of Okhotsk and the Yellow

Sea G.U. Lindberg,2020-08-26 This part completes the review of the largest and economically richest order of fishes Perciformes begun in Part 3 It includes 12 suborders with keys and brief descriptions to 230 species and information on their ecology and distribution Coping with Floods Giuseppe Rossi,Nilgun B. Harmanciogammalu,V. Yevjevich,2012-12-06
Floods are natural hazards whose effects can deeply affect the economic and environmental equilibria of a region Quality of life of people living in areas close to rivers depends on both the risk that a flood would occur and the reliability of flood forecast warning and control systems Tools for forecasting and mitigating floods have been developed through research in the recent past Two innovations currently influence flood hazard mitigation after many decades of lack of significant progress they are the development of new technologies for real time flood forecast and warning based on weather radars and satellites and a shift from structural to non structural flood control measures due to increased awareness of the importance of protecting the environment and the adverse impacts of hydraulic works on it This book is a review of research progress booked in the improvements of forecast capability and the control of floods Mostly the book presents the results of recent research in hydrology modern techniques of real time forecast and warning and ways of controlling floods for smaller impacts on the environment A number of case studies of floods in different geographical areas are also presented Scientists and specialists working in fields of hydrology environmental protection and hydraulic engineering will appreciate this book for its theoretical and practical content *The Soviet Journal of Ecology* ,1992

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