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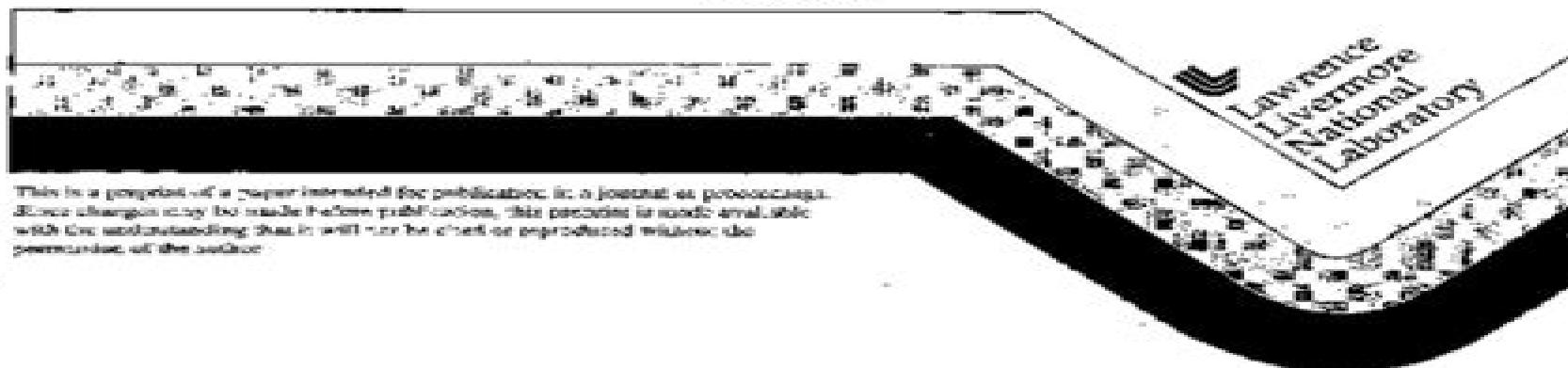
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Factors Affecting Performance of Engineered Barriers

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J.K. McCoy, D.G. McKenzie, D. Sevougian and V. Vallikat

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Performance Of Engineered Barriers In Deep Geological Depositories Technical Report Series No 34

International Atomic Energy Agency

Performance Of Engineered Barriers In Deep Geological Depositories Technical Report Series No 34:

Performance of Engineered Barriers in Deep Geological Repositories International Atomic Energy Agency, 1992 This report describes the performance of certain types of engineered barriers e g backfills for excavated areas buffers between the waste container and the host rock and seals for boreholes shafts and drifts in a deep geological repository system for the disposal of high level radioactive wastes In addition it provides technical information relevant to their development

Technical Reports Series ,2003 Scientific and Technical Basis for the Geological Disposal of Radioactive Wastes ,2003 This report focuses on the different functions of a repository within its life cycle and describes the processes relevant to the containment of long lived radioactive waste and other criteria influencing the long term integrity of the repository It emphasizes the central role of safety and the importance of safety performance assessments in the decision making process during repository development *Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste* Michael J Apted,Joonhong Ahn,2017-05-25 Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste Second Edition critically reviews state of the art technologies and scientific methods relating to the implementation of the most effective approaches to the long term safe disposition of nuclear waste also discussing regulatory developments and social engagement approaches as major themes Chapters in Part One introduce the topic of geological disposal providing an overview of near surface intermediate depth and deep borehole disposal spanning low medium and high level wastes Part Two addresses the different types of repository systems crystalline clay and salt also discussing methods of site surveying and construction The critical safety issue of engineered barrier systems is the focus of Part Three with coverage ranging from nuclear waste canisters to buffer and backfill materials Lastly Parts Four and Five focus on safety security and acceptability concentrating on repository performance assessment then radiation protection environmental monitoring and social engagement Comprehensively revised updated and expanded with 25% new material on topics of current importance this is the standard reference for all nuclear waste management and geological repository professionals and researchers Contains 25% more material on topics of current importance in this new comprehensive edition Fully updated coverage of both near surface intermediate depth and deep borehole disposal in one convenient volume Goes beyond the scientific and technical aspects of disposal to include the political regulatory and societal issues involved all from an international perspective **The Scientific and Regulatory Basis for the Geological Disposal of Radioactive Waste** David Savage,1995 The disposal of radioactive waste is a central issue in the future of nuclear power and poses considerable technical political and social issues This book addresses these topics in an integrated fashion using performance assessment of the disposal concept as a unifying theme Subjects addressed include regulatory criteria waste types sources and characteristics man made or engineered barriers the selection and evaluation of geological disposal media the use of underground research laboratories the movement of radionuclides in the biosphere repository performance assessment tools

and approaches addressing uncertainty and spatial variability assessing information from natural systems and looking at radioactive waste in relation to other wastes The book provides an up to date picture of radioactive waste disposal issues and will be of interest to scientists engineers and consultants working in the nuclear industry and the environmental field

Comprehensive Nuclear Materials, 2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation Comprehensive Nuclear Materials Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of Comprehensive Nuclear Materials has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field *Annual Report International Atomic Energy Agency, 1984* *Rock Mechanics and Engineering Volume 5* Xia-Ting Feng, 2017-07-20 Surface and Underground Projects is the last volume of the five volume set Rock Mechanics and Engineering and contains twenty one chapters from key experts in the following fields Slopes Tunnels and Caverns Mining Petroleum Engineering Thermo Hydro Mechanics in Gas Storage Loading and Radioactive Waste Disposal The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable

new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come *Multilevel Modeling of Secure Systems in QoP-ML* Bogdan Księzopolski,2015-07-02 Introducing the Quality of Protection Modeling Language QoP ML this book provides for the abstraction of security systems while maintaining emphasis on the details of quality protection It delineates the steps used in cryptographic protocol and introduces a multilevel protocol analysis that expands current understanding Every operation defined by QoP ML is described within parameters of security metrics therefore evaluating the impact of the operation on the entire system s security *Coupled Phenomena in Environmental Geotechnics* Mario Manassero,Andrea Dominijanni,Sebastiano Foti,Guido Musso,2013-05-30 Environmental Geotechnics deals with a wide variety of applications such as the characterization of polluted sites and landfill waste the design of containment systems for subsoil pollutant control radioactive waste disposal geo energy exploitation and bacteria driven soil modification among others Reliable and effective predictions of the ac *Geologic Disposal of Low- and Intermediate-Level Radioactive Waste* Roland Pusch,Raymond N. Yong,Masashi Nakano,2017-04-07 This book will address concepts and techniques for preparation and disposal of low LLW and intermediate level ILW radioactive waste from the nuclear industry the weapons industry university labs research institutes and from the commercial industry It will aid decision makers in finding optimal technical economical solutions including how site investigations design construction identification and selection of construction materials clay and concrete and monitoring can be made It will also examine techniques for isolating soil and rock contaminated by leaking nuclear plants and from damaged nuclear reactors such as those at the Fukushima and Chernobyl nuclear plants

Engineered Barrier Systems (EBS) in the Context of the Entire Safety Case ,2003 A joint NEA EC workshop entitled Engineered Barrier Systems EBS in the Context of the Entire Safety Case was organized in Oxford on 25 27 September 2002 and hosted by United Kingdom Nirex Limited The main objectives of the workshop were to provide a status report on engineered barrier systems in various national radioactive waste management programs considering deep geological

disposal to establish the value to member countries of a project on EBS and to define such a project's scope timetable and modus operandi This report presents the outcomes of this workshop **Energy Research Abstracts** ,1992-06

Proceedings of the First Annual Workshop of the HORIZON 2020 CEBAMA Project (KIT Scientific Reports : 7734)

Altmaier, M., Montoya, V., Duro, L., Valls, A., 2017-06-30 **Clay Materials Used in Construction** George M. Reeves, Ian Sims, J. C. Cripps, 2006 Concluding the trilogy on geological materials in construction this authoritative volume reviews many uses of clays ranging from simple fills to sophisticated products Comprehensive and international coverage is achieved by an expert team including geologists engineers and architects Packed with information prepared for a wide readership this unique handbook is also copiously illustrated The volume is dedicated to the memory of Professor Sir Alec Skempton Various definitions of clay are explored Clay mineralogy is described plus the geological formation of clay deposits and their fundamental materials properties World and British clay deposits are reviewed and explained New compositional data are provided for clay formations throughout the stratigraphic column Investigative techniques and interpretation are considered ranging from site exploration to laboratory assessment of composition and engineering performance Major civil engineering applications are addressed including earthworks earthmoving and specialized roles utilizing clays Traditional earthen building is included and shown to dominate construction in places Clay based construction materials are detailed including bricks ceramics and cements The volume also includes a comprehensive glossary NEA Newsletter ,1989 Flow and Transport Through Unsaturated Fractured Rock Daniel D. Evans, Thomas J. Nicholson, Todd C. Rasmussen, 2001-01-09

Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 42 This monograph is an update and revision of the first edition Geophysical Monograph 42 on ground water flow and transport through unsaturated fractured rock published by AGU in 1987 The first edition evolved from a special symposium held during the American Geophysical Union fall meetings in San Francisco in December 1986 Invited and contributed papers at that AGU session as well as panel presentations focused on conceptualizing measuring and modeling flow and transport through unsaturated fractured rock As noted in the preface to the first edition the expanded interest in the topic water flow and contaminant transport through unsaturated fractured rock was initiated when the U S Geological Survey proposed that deep unsaturated zones in arid regions be considered in the site selection for the first high level commercially generated radioactive waste repository Much of the research reported in that first edition was motivated by the U S Department of Energy's program to investigate Yucca Mountain at the Nevada Test Site as a possible geologic repository for commercially generated high level radioactive waste As noted in the overview paper of the first edition characterization methods and modeling are in their developmental stage with the greatest lack of knowledge being the interaction between fracture and matrix flow and transport properties Although the first edition of this monograph reflected the state of the science laboratory and field experimental programs were novel and limited and in general followed from the principles and methods developed in the soil

science community
Atomindex, 1987

Government Reports Annual Index, 1981

Radioactive Waste Management, 1992

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