

SEALING *of*
BOREHOLES *and*
UNDERGROUND
EXCAVATIONS *in*
ROCK

EDITED BY K. FUENKAJORN
and J.J.K. DAEMEN



CHAPMAN & HALL

Sealing Of Boreholes And Underground Excavations In Rock

AN Whitehead



Sealing Of Boreholes And Underground Excavations In Rock:

Sealing of Boreholes and Underground Excavations in Rock K. Fuenkajorn,J.J. Daemen,2012-12-06 Sealing of boreholes and underground excavations has not received much engineering attention until fairly recently The growing awareness of and sensitivity to environmental concerns of the technical community as well as of the public at large has resulted in an increasing recognition of the fact that these geological penetrations may have an environmental impact The issue of possible contamination resulting from migration along boreholes adits shafts or tunnels unquestionably has been raised most forcefully with in the context of nuclear waste disposal Several nuclear waste disposal programs notably the Civilian and the Defence programs of the US De partment of Energy the US Nuclear Regulatory Commission and the Canadian and Swedish radioactive waste disposal programs have conducted major research efforts aimed at developing adequate seal designs for penet rations in host rock formations for high level nuclear waste repositories While a considerable data base has been gathered over the last two decades or so with regard to the performance of seals most of the information is presented in research reports and widely scattered papers in journals and proceedings of conferences Hence the materials are not readily accessible to potential users such as designers contractors or regulators who are not familiar with nuclear waste disposal programs

Sealing of Boreholes and Underground Excavations in Rock K. Fuenkajorn,J.J. Daemen,2011-10-17 Sealing of boreholes and underground excavations has not received much engineering attention until fairly recently The growing awareness of and sensitivity to environmental concerns of the technical community as well as of the public at large has resulted in an increasing recognition of the fact that these geological penetrations may have an environmental impact The issue of possible contamination resulting from migration along boreholes adits shafts or tunnels unquestionably has been raised most forcefully with in the context of nuclear waste disposal Several nuclear waste disposal programs notably the Civilian and the Defence programs of the US De partment of Energy the US Nuclear Regulatory Commission and the Canadian and Swedish radioactive waste disposal programs have conducted major research efforts aimed at developing adequate seal designs for penet rations in host rock formations for high level nuclear waste repositories While a considerable data base has been gathered over the last two decades or so with regard to the performance of seals most of the information is presented in research reports and widely scattered papers in journals and proceedings of conferences Hence the materials are not readily accessible to potential users such as designers contractors or regulators who are not familiar with nuclear waste disposal programs

Rock Mechanics Tools and Techniques : Michel Aubertin,Ferri Hassani,Hani Mitri,1996

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[Rock Mechanics and Engineering Volume 2](#)

Xia-Ting Feng,2017-07-12 Laboratory and Field Testing is the second volume of the five volume set Rock Mechanics and

Engineering and contains nineteen chapters from key experts in the following fields Triaxial or True triaxial Tests under Condition of Loading and Unloading Joint Tests Dynamic and Creep Tests Physical Modeling Tests Field Testing and URLs 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

Geotechnical Instrumentation for Monitoring Field Performance John Dunnicliff,1993-10-06 The first book on the subject written by a practitioner forpractitioners Geotechnical Instrumentation for Monitoring FieldPerformance Geotechnical Instrumentation for Monitoring FieldPerformance goes far beyond a mere summary of the technicalliterature and manufacturers brochures it guides readersthrough the entire geotechnical instrumentation process showingthem when to monitor safety and performance and how to do it well This comprehensive guide Describes the critical steps of planning monitoring programsusing geotechnical instrumentation including what benefits can beachieved and how construction specifications should bewritten Describes and evaluates monitoring methods and recommendsinstruments for monitoring groundwater pressure deformations total stress in soil stress change in rock temperature and loadand strain in structural members Offers detailed practical guidelines on instrument calibrations installation and maintenance and on the collection processing and interpretation of instrumentation data Describes the role of geotechnical instrumentation during theconstruction and operation phases of civil engineering projects including braced excavations embankments on soft ground embankment dams excavated and natural slopes undergroundexcavations driving piles and drilled shafts Provides guidelines throughout the book on the best practices The British National Bibliography Arthur James Wells,1998 **Rules and Regulations** U.S. Nuclear Regulatory Commission,1987 Field Testing and instrumentation of rock ,1974 *Rock Mechanics Contributions and Challenges* W. Hustrulid,G.A. Johnson,1990-01-01

Proceedings of the 31st Symposium on Rock Mechanics held at Golden Colo June 1990 The papers cover such areas as experimental studies conceptual analytical and numerical modeling and design and construction methods Many address practical mining problems with particular area emphasis on co *Field Measurements in Geomechanics* F. Myrvoll,2003-01-01 A broad cross section of papers from the 6th International Symposium FMGM in Oslo September 2003 detailing the latest developments in geomechanical field measurement technology and methods Taking in a wide range of real world applications from tunnels to off shore structures these papers look at both theoretical and practical aspects of the subject and assess performances in the field providing a wealth of knowledge for professionals and researchers interested in field measurements soil and granular mechanics engineering geology or construction *KWIC Index of Rock Mechanics Literature* J P Jenkins,E. T. Brown,2016-06-03 KWIC Index of Rock Mechanics Literature Part 2 1969 1976 is an index of subjects in rock mechanics The KWIC keyword in context index is produced by cyclic permutation of significant words in the title of the publication The text covers materials in rock mechanics and geomechanics published around the 70s The book will be of great use to students researchers and practitioners of geological sciences **Technical Manual for Design and Construction of Road Tunnels--civil Elements** ,2010 The increased use of underground space for transportation systems and the increasing complexity and constraints of constructing and maintaining above ground transportation infrastructure have prompted the need to develop this technical manual This FHWA manual is intended to be a single source technical manual providing guidelines for planning design construction and rehabilitation of road tunnels and encompasses various types of road tunnels P ix **A Preliminary Evaluation of the Rock Mass Disturbance Resulting from Shaft, Tunnel, Or Borehole Excavation** P. C. Kelsall,1982 **Engineering Geologic, Geophysical, Hydrologic, and Rock-mechanics Investigations of the Straight Creek Tunnel Site and Pilot Bore, Colorado** Geological Survey (U.S.),1974 *Surface and Underground Excavations* Ratan Raj Tatiya,2005-08-18 This comprehensive text explores the technologies and developments in excavations for any type of surface or underground excavation The first several chapters cover unit operations including drilling explosives and blasting mucking haulage hoisting and supports and reinforcement The book then describes excavation techniques for various operations such as tunneling raising sinking drifting stoping quarrying and surface mining underground mining pillar blasting and liquidation It also examines the design planning and analysis of excavations as well as the construction of surface and subsurface excavations such as caverns Case studies focus on heavy underground blasting during pillar recoveries **Geological Survey Professional Paper** Geological Survey (U.S.),1973 **The Office of Environmental Management Technical Reports** ,1997

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