

# **Flow and Transport Through Unsaturated Fractured Rock**

**Daniel D. Evans and Thomas J. Nicholson, Editors**

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**Jacob Bear, C-F. Tsang, Ghislain De Marsily**



## **Flow And Transport Through Unsaturated Fractured Rock:**

*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

**Flow and Contaminant Transport in Fractured Rock** Jacob Bear, C-F. Tsang, Ghislain De Marsily, 2012-12-02 In the past two or three decades fractured rock domains have received increasing attention not only in reservoir engineering and hydrology but also in connection with geological isolation of radioactive waste Locations in both the saturated and unsaturated zones have been under consideration because such repositories are sources of heat and potential sources of groundwater contamination Thus in addition to the transport of mass of fluid phases in single and multiphase flow the issues of heat transport and mass transport of components have to be addressed

**Radioactive Waste Management**, 1981 **Yucca Mountain Site Characterization Project Bibliography, 1992-1993**, 1994 *Handbook of Vadose Zone Characterization & Monitoring* L. Gray Wilson, Lorne G. Everett, Stephen J. Cullen, 2018-05-02 This book is written in a simple straightforward manner without complicated mathematical derivatives Compiled by experienced practitioners this guide covers topics such as basic principles of vadose zone hydrology and prevalent monitoring techniques Case studies present actual field experiences for the benefit of the reader The Handbook provides practitioners with the information they need to fully understand the principles advantages and limitations of the monitoring techniques that are available The Handbook of Vadose Zone Characterization Monitoring expands and consolidates the useful and succinct information contained in various ASTM documents EPA manuals and other

similar texts on the subject making it an invaluable aid to new practitioners and a useful reference for seasoned veterans in the field

**Flow and Transport in Unsaturated Fractured Rock**, 2002 The heterogeneity of hydrogeologic properties at different scales may have different effects on flow and transport processes in a subsurface system A model for the unsaturated zone of Yucca Mountain Nevada is developed to represent complex heterogeneity at two different scales 1 layer scale corresponding to geologic layering and 2 local scale The layer scale hydrogeologic properties are obtained using inverse modeling based on the available measurements collected from the Yucca Mountain site Calibration results show a significant lateral and vertical variability in matrix and fracture properties Hydrogeologic property distributions in a two dimensional vertical cross section of the site are generated by combining the average layer scale matrix and fracture properties with local scale perturbations generated using a stochastic simulation method The unsaturated water flow and conservative non-sorbing tracer transport through the cross section are simulated for different sets of matrix and fracture property fields Comparison of simulation results indicates that the local scale heterogeneity of matrix and fracture properties has a considerable effect on unsaturated flow processes leading to fast flow paths in fractures and the matrix These paths shorten the travel time of a conservative tracer from the source repository horizon in the unsaturated zone to the water table for small fractions of total released tracer mass As a result the local scale heterogeneity also has a noticeable effect on global tracer transport processes characterized by an average breakthrough curve at the water table especially at the early arrival time of tracer mass However the effect is not significant at the later time after 20 percent tracer mass reaches the water table The simulation results also verify that matrix diffusion plays an important role in overall solute transport processes in the unsaturated zone at Yucca Mountain

**Energy Research Abstracts**, 1993-11 [Rock Fractures and Fluid Flow](#)

National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Fracture Characterization and Fluid Flow, 1996-09-27 Scientific understanding of fluid flow in rock fractures a process underlying contemporary earth science problems from the search for petroleum to the controversy over nuclear waste storage has grown significantly in the past 20 years This volume presents a comprehensive report on the state of the field with an interdisciplinary viewpoint case studies of fracture sites illustrations conclusions and research recommendations The book addresses these questions How can fractures that are significant hydraulic conductors be identified located and characterized How do flow and transport occur in fracture systems How can changes in fracture systems be predicted and controlled Among other topics the committee provides a geomechanical understanding of fracture formation reviews methods for detecting subsurface fractures and looks at the use of hydraulic and tracer tests to investigate fluid flow The volume examines the state of conceptual and mathematical modeling and it provides a useful framework for understanding the complexity of fracture changes that occur during fluid pumping and other engineering practices With a practical and multidisciplinary outlook this volume will be welcomed by geologists petroleum geologists geoengineers

geophysicists hydrologists researchers educators and students in these fields and public officials involved in geological projects

**Modeling Flow and Transport in Unsaturated Fractured Rock**, 2002 Because the continuum approach is relatively simple and straightforward to implement it has been commonly used in modeling flow and transport in unsaturated fractured rock However the usefulness of this approach can be questioned in terms of its adequacy for representing fingering flow and transport in unsaturated fractured rock The continuum approach thus needs to be evaluated carefully by comparing simulation results with field observations directly related to unsaturated flow and transport processes This paper reports on such an evaluation based on a combination of model calibration and prediction using data from an infiltration test carried out in a densely fractured rock within the unsaturated zone of Yucca Mountain Nevada Comparisons between experimental and modeling results show that the continuum approach may be able to capture important features of flow and transport processes observed from the test The modeling results also show that matrix diffusion may have a significant effect on the overall transport behavior in unsaturated fractured rocks which can be used to estimate effective fracture matrix interface areas based on tracer transport data While more theoretical numerical and experimental studies are needed to provide a conclusive evaluation this study suggests that the continuum approach is useful for modeling flow and transport in unsaturated densely fractured rock

**Scaling Methods in Soil Physics** Yakov Pachepsky, David E. Radcliffe, H. Magdi Selim, 2003-03-26 The scaling issue remains one of the largest problems in soil science and hydrology This book is a unique compendium of ideas conceptual approaches techniques and methodologies for scaling soil physical properties *Scaling Methods in Soil Physics* covers many methods of scaling that will be useful in helping scientists across a range of soil related issues

**EPA Environmental Assessment Sourcebook** J. Russell Boulding, 1996-03-01 The Environmental Protection Agency EPA sponsors constant publication of the latest soil and groundwater contamination studies Editor J Russell Boulding has compiled the most recent and the best of these documents in the EPA Environmental Assessment Sourcebook This book is required reading for both the novice and the experienced environmental academic or technician Boulding's selections address the basic concepts of contaminant behavior through the newest sampling techniques The EPA Environmental Assessment Sourcebook is an essential and convenient tool for anyone on the cutting edge of contamination detection monitoring and hopefully someday prevention

**Uncertainty Underground** Allison Macfarlane, Rodney C. Ewing, 2006 Experts from science industry and government discuss the unresolved scientific and technical issues surrounding the Yucca Mountain site as a geologic repository for high level nuclear waste

**Handbook of Soil Science** Malcolm E. Sumner, 1999-08-31 The Handbook of Soil Science provides a resource rich in data that gives professional soil scientists agronomists engineers ecologists biologists naturalists and their students a handy reference about the discipline of soil science This handbook serves professionals seeking specific factual reference information Each subsection includes a description of concepts and theories definitions approaches methodologies and procedures tabular data figures and extensive

references      **Vadose Zone Hydrology** Marc B. Parlange, Jan W. Hopmans, 1999 The vadose zone is the region between ground level and the upper limits of soil fully saturated with water Hydrology in the zone is complex nonlinear physical chemical and biological interactions all affect the transfer of heat mass and momentum between the atmosphere and the water table This book takes an interdisciplinary approach to vadose zone hydrology bringing together insights from soil science hydrology biology chemistry physics and instrumentation design The chapters present state of the art research focusing on new frontiers in theory experiment and management of soils The collection addresses the full range of processes from the pore scale to field and landscape scales      Progress Report on the Scientific Investigation Program for the Nevada Yucca Mountain Site ,1992      Monthly Catalogue, United States Public Documents ,1993      **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1993 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index      *Hydrology and Geochemistry of Yucca Mountain and Vicinity, Southern Nevada and California* John S. Stuckless, 2012      **Adsorption of Metals by Geomedia II** Mark Barnett, Douglas Kent, 2007-12-17 Adsorption of Metals by Geomedia II serves as a needed resource for this topic which has received much attention during the past 25 years The book provides an in depth review of the field followed by numerous chapters that document the current status of adsorption research for a variety of metals by geomedia ranging from individual minerals to sediments and soils Adsorption mechanisms are detailed and precipitation is presented as a distinct sorption process Virtually all factors affecting the extent of metal adsorption are examined including the effects of selected anions competition among metals pH metal concentration loading variable metal adsorption capacity ionic strength hydrogen exchange and stoichiometry and solids concentration A variety of adsorption models are briefly presented and some are used to extend laboratory studies to field sites This is a compilation of 25 peer reviewed papers from among the 60 platform and poster presentations of the symposium Adsorption of Metals to Geomedia II at the American Chemical Society ACS Meeting March 27-29 2006 in Atlanta Georgia USA This symposium is a follow up to the original held in 1996 Learn the tools and techniques from leading academics and industry experts One stop practical resource and guide for those in the field Keep informed and up to date on all the latest advancements in technology      **Evaluation and Remediation of Low Permeability and Dual Porosity Environments** Martin N. Sara, Lorne G. Everett, 2002

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