

Flow and Transport Through Unsaturated Fractured Rock

Daniel D. Evans and Thomas J. Nicholson, Editors

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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 Radioactive Waste Management ,1981 *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

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.

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.

Yucca Mountain Site Characterization Project Bibliography, 1992-1993, 1994. **Unsaturated Flow and Transport Through Fractured Rock Related to High-level Waste Repositories; Final Report, Phase 3**, 1991. Research results are summarized for a US Nuclear Regulatory Commission contract with the University of Arizona focusing on field and laboratory methods for characterizing unsaturated fluid flow and solute transport related to high level radioactive waste repositories. Characterization activities are presented for the Apache Leap Tuff field site. The field site is located in unsaturated fractured tuff in central Arizona. Hydraulic, pneumatic, and thermal characteristics of the tuff are summarized along with methodologies employed to monitor and sample hydrologic and geochemical processes at the field site. Thermohydrologic experiments are reported which provide laboratory and field data related to the effects, conditions, and flow and transport in unsaturated fractured rock. 29 refs, 17 figs, 21 tabs.

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

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 rel *Energy Research Abstracts*, 1993

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

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 Hydrology and Geochemistry of Yucca Mountain and Vicinity, Southern Nevada and California John S. Stuckless, 2012 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 *Groundwater Flow and Quality Modelling* E. Custodio, A. Gurgui, J.P. Lobo Ferreira, 2012-12-06 Proceedings of the NATO Advanced Research Workshop on Advances in Analytical and Numerical Groundwater Flow and Quality Modelling Lisbon Portugal June 2 6 1987 *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

The Top Books of the Year Flow And Transport Through Unsaturated Fractured Rock The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Flow And Transport Through Unsaturated Fractured Rock : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Flow And Transport Through Unsaturated Fractured Rock : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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