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**Lyasse Laloui
Alessio Ferrari (Eds.)**

Multiphysical Testing of Soils and Shales

 **Springer**

Multiphysical Testing Of Soils And Shales Springer Series In Geomechanics And Geoengineering

Lyasse Laloui, Alessio Ferrari



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Multiphysical Testing of Soils and Shales Lyesse Laloui, Alessio Ferrari, 2012-08-22 Significant advancements in the experimental analysis of soils and shales have been achieved during the last few decades Outstanding progress in the field has led to the theoretical development of geomechanical theories and important engineering applications This book provides the reader with an overview of recent advances in a variety of advanced experimental techniques and results for the analysis of the behaviour of geomaterials under multiphysical testing conditions Modern trends in experimental geomechanics for soils and shales are discussed including testing materials in variably saturated conditions non isothermal experiments micro scale investigations and image analysis techniques Six theme papers from leading researchers in experimental geomechanics are also included This book is intended for postgraduate students researchers and practitioners in fields where multiphysical testing of soils and shales plays a fundamental role such as unsaturated soil and rock mechanics petroleum engineering nuclear waste storage engineering unconventional energy resources and CO2 geological sequestration *Shale* Thomas Dewers, Jason Heath, Marcelo Sánchez, 2019-10-15 Advances in theories methods and applications for shale resource use Shale is the dominant rock in the sedimentary record It is also the subject of increased interest because of the growing contribution of shale oil and gas to energy supplies as well as the potential use of shale formations for carbon dioxide sequestration and nuclear waste storage *Shale Subsurface Science and Engineering* brings together geoscience and engineering to present the latest models methods and applications for understanding and exploiting shale formations Volume highlights include Review of current knowledge on shale geology Latest shale engineering methods such as horizontal drilling Reservoir management practices for optimized oil and gas field development Examples of economically and environmentally viable methods of hydrocarbon extraction from shale Discussion of issues relating to hydraulic fracking carbon sequestration and nuclear waste storage Book Review I D Sasowsky University of Akron Ohio September 2020 issue of CHOICE CHOICE connect A publication of the Association of College and Research Libraries A division of the American Library Association Connecticut USA Shale has a long history of use as construction fill and a ceramic precursor In recent years its potential as a petroleum reservoir has generated renewed interest and intense scientific investigation Such work has been significantly aided by the development of instrumentation capable of examining and imaging these very fine grained materials This timely multiauthor volume brings together 15 studies covering many facets of the related science The book is presented in two sections an overview and a second section emphasizing unconventional oil and gas Topics covered include shale chemistry metals content rock mechanics borehole stability modeling and fluid flow to name only a few The introductory chapter 24 pages is useful and extensively referenced The lead chapter to the second half of the book Characterization of Unconventional Resource Shales provides a notably detailed analysis supporting a comprehensive production workflow The book is richly illustrated in full color featuring high quality images graphs and charts The extensive

index provides depth of access to the volume This work will be of special interest to a diverse group of investigators moving forward with understanding this fascinating group of rocks Summing Up Recommended Upper division undergraduates through faculty and professionals *Advances in Laboratory Testing and Modelling of Soils and Shales (ATMSS)* Alessio Ferrari,Lyesse Laloui,2017-01-16 In this spirit the ATMSS International Workshop Advances in Laboratory Testing 18 20 January 2017 has been organized to promote the exchange of ideas experience and state of the art among major experts active in the field of experimental testing and modelling of soils and shales The Workshop has been organized under the auspices of the Technical Committees TC 101 Laboratory Testing TC 106 Unsaturated Soils and TC 308 Energy Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering This volume contains the invited keynote and feature lectures as well as the papers that have been presented at the Workshop The topics of the lectures and papers cover a wide range of theoretical and experimental research including unsaturated behaviour of soils and shales multiphysical testing of geomaterials hydro mechanical behaviour of shales and stiff clays the geomechanical behaviour of the Opalinus Clay shale advanced laboratory testing for site characterization and in situ applications and soil structure interactions

Energy Geotechnics Alessio Ferrari,Lyesse Laloui,2018-08-23 This book collects selected full papers presented at the International Symposium on Energy Geotechnics 2018 SEG 2018 held on 25th 28th September 2018 at the Swiss Federal Institute of Technology in Lausanne EPFL It covers a wide range of topics in energy geotechnics including energy geostructures energy geostorage thermo hydro chemo mechanical behaviour of geomaterials unconventional resources hydraulic stimulation induced seismicity CO2 geological storage and nuclear waste disposal as well as topics such as tower and offshore foundations The book is intended for postgraduate students researchers and practitioners working on geomechanics and geotechnical engineering for energy related applications **Multilevel Modeling of Secure Systems in QoP-ML** Bogdan Księżopolski,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 **Current Trends in Civil Engineering and Engineering Sciences 2024, Vol 1** Mahdi Karkush,Deepankar Choudhury,Mohammed Fattah,2024-11-15 This book contains selected articles from the fourth International Conference on Geotechnical Engineering Iraq 2024 ICGE 2024 held on April 17 18 2024 at at Warith

Al Anbiyaa University Karbala Iraq This proceeding discusses the latest research and studies in geotechnical engineering and all related topics in different fields such as civil engineering environmental engineering and architectural engineering This book gives participants from both academics and industry a great chance to learn about recent developments in Geotechnical engineering fields *Unsaturated Soils: Research & Applications* Nasser Khalili, Adrian Russell, Arman

Khoshghalb, 2014-06-05 *Unsaturated Soils Research and Applications* contains 247 papers presented at 6th International Conference on Unsaturated Soils UNSAT2014 Sydney Australia 2-4 July 2014 The two volumes provide an overview of recent experimental and theoretical advances in a wide variety of topics related to unsaturated soil mechanics Unsaturated Soil Behavior Experimentation Modelling Case Histories Geotechnical Engineering Problems Multidisciplinary and New Areas *Unsaturated Soils Research and Applications* presents a wealth of information and is of interest to researchers and practising engineers in soil mechanics and geotechnical engineering These proceedings are dedicated to Professor Geoffrey E Blight 1934-2013 who passed in November 2013 **Flow and Transport Properties of Unconventional Reservoirs 2018**

Jianchao Cai, Zhien Zhang, Qinjun Kang, Harpreet Singh, 2019-07-23 Unconventional reservoirs are usually complex and highly heterogeneous such as shale coal and tight sandstone reservoirs The strong physical and chemical interactions between fluids and pore surfaces lead to the inapplicability of conventional approaches for characterizing fluid flow in these low porosity and ultralow permeability reservoir systems Therefore new theories and techniques are urgently needed to characterize petrophysical properties fluid transport and their relationships at multiple scales for improving production efficiency from unconventional reservoirs This book presents fundamental innovations gathered from 21 recent works on novel applications of new techniques and theories in unconventional reservoirs covering the fields of petrophysical characterization hydraulic fracturing fluid transport physics enhanced oil recovery and geothermal energy Clearly the research covered in this book is helpful to understand and master the latest techniques and theories for unconventional reservoirs which have important practical significance for the economic and effective development of unconventional oil and gas resources **Proceedings of ISSMGE TC101 - Advanced Laboratory Testing & Nature Inspired Solutions in**

Engineering (NISE) Joint Symposium Kemal Önder Cetin, Abdullah Ekinici, Eris Uygur, Arya Assadi Langroudi, 2024-02-19 Capturing the mechanical behaviour of engineered soils requires new constitutive models tailored for stabilising materials biogenic polymeric etc and methods for their inclusion in soil In this book and to accommodate such an integrated approach a range of non conventional materials are first discussed from physio chemo mechanical circularity and socioeconomic perspectives Contributions continue with tailored methods for the determination of advanced mechanical properties and methods to capture the response of grand systems constituting such materials The book concludes with contributions about how materials and methods should and are combined to develop new soil models The integrated approach followed in this book makes it of interest to geotechnical researchers as well as design engineers policymakers and planners hence the broad

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