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RECEIVED 14 September 2023

ACCEPTED 08 September 2023

PUBLISHED 25 September 2023

CITATION

Li H, Yin S and Ding W (2023) Editorial:
Quantitative characterization and
engineering application of pores and
fractures of different scales in
unconventional reservoirs, volume III.
Front. Earth Sci. 11:1294427.
doi: 10.3389/feart.2023.1294427

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Editorial: Quantitative characterization and engineering application of pores and fractures of different scales in unconventional reservoirs, volume III

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KEYWORDS

tight sandstone, shale gas, volcanic reservoir, multi-scale fracture systems, pore
structure, reservoir characteristics

Editorial on the Research Topic

Quantitative characterization and engineering application of pores and
fractures of different scales in unconventional reservoirs, volume III

1 Introduction

Unconventional oil and gas resources have emerged as a pivotal area in the global petroleum industry, representing a significant shift from conventional hydrocarbon exploration and production. These unconventional resources, which encompass reservoirs like shale, tight sandstones, tight carbonates, and volcanic rocks, pose distinct challenges due to their intricate pore-fracture systems and the unconventional mechanisms governing fluid flow and accumulation (Gao and Li, 2016; Li et al., 2019; Li et al., 2020; Radwan et al., 2021; Li, 2023). Notably, each type of unconventional reservoir exhibits unique characteristics, necessitating a comprehensive and precise quantification of their pore and fracture attributes. This quantification is pivotal to advancing the exploration and production strategies for unconventional oil and gas reservoirs.

In recent years, there has been a remarkable surge in technological advancements and their practical application in reservoir characterization. These innovations span various disciplines, including high-resolution CT scanning, nuclear magnetic resonance (NMR), field-emission scanning electron microscopy (FE-SEM), atomic force microscopy (AFM), and gas adsorption techniques (Fan et al., 2020a; Li et al., 2022a; Li, 2022; Zhu et al., 2023). These cutting-edge technologies have collectively enabled researchers and industry professionals to undertake quantitative assessments of the intricate three-dimensional pore structures and the behavior of mobile fluids within tight reservoirs.

Quantitative Characterization Performa

**George Deodatis, Bruce R.
Ellingwood, Dan M. Frangopol**

Quantitative Characterization Performa:

High Performance Liquid Chromatography in Phytochemical Analysis Monika Waksmundzka-Hajnos, Joseph Sherma, 2010-11-08 The powerful efficient technique of high performance liquid chromatography HPLC is essential to the standardization of plant based drugs identification of plant material and creation of new herbal medicines Filling the void in this critical area High Performance Liquid Chromatography in Phytochemical Analysis is the first book to give a comp

Qualitative Analysis of Human Movement Duane V. Knudson, Craig S. Morrison, 2002 Forlagetets beskrivelse An interdisciplinary approach to the qualitative analysis of human movement The authors explain how to blend experience and sport science to improve movement The accompanying CD ROM is designed to help the user improve their observational and analytical skills

High Performance Computing Philippe Navaux, Carlos J. Barrios H., Carla Osthoff, Ginés Guerrero, 2022-12-20 This book constitutes the proceedings of the 9th Latin American Conference on High Performance Computing CARLA 2022 held in Porto Alegre Brazil in September 2022 The 16 full papers presented in this volume were carefully reviewed and selected from 56 submissions CARLA the Latin American High Performance Computing Conference is an international academic meeting aimed at providing a forum to foster the growth and strength of the High Performance Computing HPC community in Latin America and the Caribbean through the exchange and dissemination of new ideas techniques and research in HPC and its application areas

Peak Performance Patricia Melton Allen, Frances E. Alston, Emily Millikin DeKerchove, 2019-05-03 The key to success and reaching peak performance is integrating three processes to optimize business through the use of human performance improvement tools lean thinking operational excellence along with a strong organizational culture as the underpinning These components form the basis of the Peak Performance Model The tools presented in this book along with the case studies demonstrate how the model is applied and integrated into company practices Companies and organizations want to improve their performance but many have not integrated the right tools and processes Through the application of the Peak Performance Model every company can achieve and sustain Peak Performance

High Performance Liquid Chromatography in Pesticide Residue Analysis Tomasz Tuzimski, Joseph Sherma, 2015-12-01 HPLC is the principal separation technique for identification of the pesticides in environmental samples and for quantitative analysis of analytes At each stage of the HPLC procedure the chromatographer should possess both the practical and theoretical skills required to perform HPLC experiments correctly and to obtain reliable repeatable and reproducible results Developed to serve as a detailed practical guide High Performance Liquid Chromatography in Pesticide Residue Analysis is a comprehensive source of information and training on state of the art pesticide residue methods performed with the aid of HPLC The book presents the pros and cons of HPLC as a flexible and versatile separation and analysis tool with multiple purposes and advantages in investigations of pesticides for food and plant drugs standardization promotion of health protection of new herbal medicines and more

Evaluation of the Effects of JTPA

Performance Standards on Clients, Services, and Costs United States. National Commission for Employment Policy,1988

High Performance Liquid Chromatography Omar Al Sayed Omar,Moustafa A. Khalifa,2022-02-21 During the past decade modern high performance liquid chromatography HPLC utilization has expanded greatly especially in the quality control of pharmaceutical products in drug quality control laboratories This book provides an extensive collection of technical information about HPLC Columns physicochemical properties and chromatographic characteristics from various manufacturers and helps analysts to decide on the ideal approach for their analysis according to the requirements of drug manufacturers specifications and the desired Pharmacopeia In addition the authors give practical advice on how to prepare mobile phases choose a suitable detector and set up an HPLC analysis This book is comprehensive for the average professional or technician who plans to work with modern HPLC This book is useful for most Drug Quality Control Laboratories where modern HPLC is utilized Following a hands on approach the book gives key insights into the pharmaceutical applications of HPLC and the latest requirements of the major regulatory agencies such as ICH FDA or USP

Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures George Deodatis,Bruce R. Ellingwood,Dan M. Frangopol,2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY ICOSSAR2013 New York NY USA 16 20 June 2013 This set of a book of abstracts and searchable full paper USBdevice is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures

Understanding International Students' Academic Performance in Top Chinese Universities Lazarus Obed Livingstone Banda,Jin Liu,2025-02-19 Combining theory and case studies this book explores the factors that influence the academic success of international students in China It emphasizes the importance of cultural understanding and tailored support systems in improving academic outcomes The authors utilize the Social Cognitive Theory SCT to examine how students academic outcomes are shaped by personal environmental and behavioral factors especially given the unique challenges in a rapidly globalizing educational environment Using a mix of quantitative and qualitative methodologies this book investigates various aspects of academic performance including motivation self regulation and cultural adaptation A key focus is the application of Attribution Theory which studies how students beliefs about the causes of their academic success or failure affect their motivation and behavior The authors also discuss the impact of institutional factors such as faculty support and the quality of educational resources on student performance The title will appeal to scholars and students interested in student mobility student performance Chinese education and international education in China It also serves as a valuable read for educators and policymakers relevant to the context of China s increasing prominence as a destination for international education

Self-Regulation in Activity Theory Gregory Z. Bedny,Waldemar Karwowski,Inna Bedny,2018-10-03 Every complex human machine system includes a

computer as a critically important means of work However an operator s interaction with a computerized system cannot be reduced to only performing computer based tasks Today human computer interaction HCI is not limited to trained software users People of all ages use all different kinds of gadget *Policy Making in Multilevel Systems* Jan Biela,Annika Hennl,André Kaiser,2024-10-31 Does the territorial state organisation matter for effective policy making and if so in what way So far we know relatively little about its effects on policy making and policy outputs Starting from the hypothesis that decentralised policy making has positive effects whereas federalism has a slightly negative impact on policy performance this book systematically tests the independent and interdependent effects of different combinations of federal unitary and decentralised centralised structures of decision making and implementation Based on a mixed methods design it first quantitatively tests the relationships for the OECD countries in cross sectional as well as panel designs In a second step qualitative case studies are conducted for four countries federal centralised Austria federal decentralised Switzerland unitary decentralised Denmark and unitary centralised Ireland The authors study two space related policy areas both with regard to the decision making and the implementation stage of the policy making process regional policy and transport policy

Performance Measurement in Finance John Knight,2002-07-10 The distinction between out performance of an Investment fund or plan manager vs rewards for taking risks is at the heart of all discussions on Investment fund performance measurement of fund managers This issue is not always well understood and the notion of risk adjusting performance is not universally accepted Performance Measurement in Finance addresses this central issue The topics covered include evaluation of investment fund management evaluation of the investment fund itself and stock selection performance The book also surveys and critiques existing methodologies of performance measurement and covers new innovative approaches to performance measurement The contributors to the text include both academics and practitioners providing comprehensive coverage of the topic areas Performance Measurement in Finance is all about how to effectively measure financial performance of the fund manager and investment house managers what measures need to be put in place and technically what works and what doesn t It covers risk and what s acceptable and what isn t how in short to manage risk Includes practical information to enable Investment Portfolio Managers to understand and evaluate fund managers the funds themselves and Investment firms Provides a full overview of the topic as well as in depth technical analysis *Practical High-Performance Liquid Chromatography* Veronika R. Meyer,2004-10 Publisher Description **Handbook of Food**

Analysis: Physical characterization and nutrient analysis Leo M. L. Nollet,2004 This two volume handbook supplies food chemists with essential information on the physical and chemical properties of nutrients descriptions of analytical techniques and an assessment of their procedural reliability The new edition includes two new chapters that spotlight the characterization of water activity and the analysis of inorganic nutrients and provides authoritative rundowns of analytical techniques for the sensory evaluation of food amino acids and fatty acids neutral lipids and phospholipids and more The

leading reference work on the analysis of food this edition covers new topics and techniques and reflects the very latest data and methodological advances in all chapters *An Introduction to Performance Analysis of Sport* Peter

O'Donoghue,2014-09-15 Performance analysis has become an essential tool for coaches athletes sports organisations and academic researchers Collecting and interpreting performance data enables coaches to improve their training programmes athletes to make better tactical decisions sports organisations to manage teams more effectively and researchers to develop a better understanding of sports performance This book is an essential introduction to the fundamental principles of performance analysis of sport and how to develop and operate performance analysis systems Containing worked examples from real sporting events throughout the book introduces the basics of quantitative and qualitative performance analysis reviews the different types of data and information that performance analysis can generate and explains how to test for reliability It presents a step by step guide to developing both manual and computerised analysis systems and writing up and presenting findings from performance analysis programmes Representing the most up to date concise and engaging introduction to sports performance analysis this book is an ideal course text for all introductory performance analysis courses as well as an invaluable primer for coaches and practitioners in sport Hydro-Environmental Analysis James L.

Martin,2013-12-04 Focusing on fundamental principles Hydro Environmental Analysis Freshwater Environments presents in depth information about freshwater environments and how they are influenced by regulation It provides a holistic approach exploring the factors that impact water quality and quantity and the regulations policy and management methods that are necessary to maintain this vital resource It offers a historical viewpoint as well as an overview and foundation of the physical chemical and biological characteristics affecting the management of freshwater environments The book concentrates on broad and general concepts providing an interdisciplinary foundation The author covers the methods of measurement and classification chemical physical and biological characteristics indicators of ecological health and management and restoration He also considers common indicators of environmental health characteristics and operations of regulatory control structures applicable laws and regulations and restoration methods The text delves into rivers and streams in the first half and lakes and reservoirs in the second half Each section centers on the characteristics of those systems and methods of classification and then moves on to discuss the physical chemical and biological characteristics of each In the section on lakes and reservoirs it examines the characteristics and operations of regulatory structures and presents the methods commonly used to assess the environmental health or integrity of these water bodies It also introduces considerations for restoration and presents two unique aquatic environments wetlands and reservoir tailwaters Written from an engineering perspective the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science as well as students of environmental engineering It also serves as a reference for engineers and scientists involved in the management regulation or restoration of freshwater environments Structure and Performance of Cements, Second Edition P. Barnes,J.

Bensted,2002-11-01 Drawing together a multinational team of authors this second edition of Structure and Performance of Cements highlights the latest global advances in the field of cement technology Three broad categories are covered basic materials and methods cement extenders and techniques of examination Within these categories consideration has been given to environmental issues such as the use of waste materials in cement burning as supplementary fuels and new and improved methods of instrumentation for examining structural aspects and performance of cements This book also covers cement production mineralogy and hydration as well as the mechanical properties of cement and the corrosion and durability of cementitious systems Special cements are included along with calcium aluminate and blended cements together with a consideration of the role of gypsum in cements Structure and Performance of Cements is an invaluable key reference for academics researchers and practitioners alike

Augmented Wellness Ben Othman Soufiane,Chinmay

Chakraborty,Bhuvan Unhelkar,2025-04-17 This book is an essential resource that delves into the transformative potential of augmented reality AR and virtual reality VR within the healthcare industry In a world where technology is continually reshaping the way we approach medical treatment training and education this book provides a comprehensive exploration of how AR and VR technologies are becoming integral to the advancement of healthcare It serves as a bridge between the rapidly evolving field of healthcare and the cutting edge innovations in AR and VR addressing the significant impact these technologies have on patient care medical training and the ethical considerations surrounding their use The book has a broad audience including healthcare professionals students and technology enthusiasts It explores the practical applications of AR and VR in healthcare highlighting their roles in patient education pain management telemedicine and medical training Additionally the book delves into the ethical and regulatory considerations of integrating AR and VR into healthcare sparking conversations around patient privacy and moral dilemmas With real world case studies and emerging technologies Augmented Wellness provides readers with the knowledge to navigate the ever changing landscape of augmented and virtual reality in healthcare It is an invaluable resource for anyone seeking to understand embrace or innovate within this dynamic intersection of healthcare and technology It ensures that healthcare transformation through AR and VR is beneficial and ethically responsible This comprehensive book explores the vast and intricate universe of Virtual and Augmented Reality in healthcare It delves into the multitude of ways in which these technologies are being harnessed to diagnose treat educate and support patients The aim is to provide an in depth understanding of the present state and exciting potential future of VR and AR in the healthcare ecosystem We have created a resource accessible to a broad audience from healthcare professionals and technology enthusiasts to policymakers and students The book offers a balanced blend of real world case studies expert insights technical details and practical applications covering a wide range of topics from using VR for pain management and physical therapy to AR s role in assisting surgeons during complex procedures

Application of Systemic-Structural Activity Theory to Design and Training Gregory Z. Bedny,2014-12-18 This book offers analytical methods for studying

human work in ergonomics and psychology that are similar to ones utilized by the engineering sciences SSAT offers not only new qualitative but also formalized and quantitative methods of analysis This book will describe quantitative methods of task complexity and reliability assessment application

Fire Performance Analysis for Buildings Robert W. Fitzgerald, Brian J. Meacham, 2017-05-01 A building fire is dynamic A continually changing hostile fire environment influences time relationships that affect fire defenses and risks to people and building functions The fire and fire defenses in each building interact with different sequences and distinct ways Risks are characterized by the building's performance Significantly updated and restructured new edition Fire Performance Analysis for Buildings 2nd Edition organizes the complex interactions into an analytical framework to evaluate any building at any location built under any regulatory jurisdiction or era Systematic logical procedures evaluate individual component behavior and integrate results to understand holistic performance The Interactive Performance Information IPI chart structures complex time related interactions among the fire fire defenses and associated risks Quantification uses state of the art deterministic methods of fire safety engineering and fire science Managing uncertainty is specifically addressed Key features Emphasizes fire performance analysis for new or existing buildings Augments fire dynamics calculation methods with qualitative methods to form a more complete understanding of the effects of hostile fire characteristics on building performance Describes fire ground operations for engineers with no fire service experience An analysis evaluates ways the site and building design help or hinder manual fire suppression Establishes a transition from traditional structural requirements to modern calculation based structural analysis and design for fire conditions Structural concepts are described for non structural engineers to enable the roles of each profession to be integrated into comprehensive performance evaluations Addresses techniques of managing uncertainty to improve understanding and communication with professionals of other disciplines Describes methods of risk management using information from the building's performance analysis Fire Performance Analysis for Buildings 2nd Edition has been completely restructured around a performance based framework Applications integrate traditional fire defenses with fire science and engineering to combine component performance with holistic performance

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