

SEDIMENTARY BASINS AND PETROLEUM GEOLOGY OF THE MIDDLE EAST

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Sedimentary Basins And Petroleum Geology Of The Middle East

**François Roure, Ammar A. Amin, Sami
Khomsi, Mansour A. M. Al Garni**



Sedimentary Basins And Petroleum Geology Of The Middle East:

Sedimentary Basins and Petroleum Geology of the Middle East A.E.M. Nairn,A.S. Alsharhan,1997-12-11 The wealth of petroleum has made the Middle East one of the most actively explored regions of the world The volume of geological geophysical and geochemical data collected by the petroleum industry in recent decades is enormous The Middle East may be a unique region in the world where the volume of subsurface data and information exceeds that based on surface outcrop This book reviews the tectonic and geological history of the Middle East and the regional hydrocarbon potential on a country by country basis in the context of current ideas developed through seismic and sequence stratigraphy and incorporating the ideas of global sea level change Subsurface data have been used as much as possible to amplify the descriptions The paleogeographic approach provides a means to view the area as a whole While the country by country approach inevitably leads to some repetition it enhances the value of the volume as a teaching tool and underlines some of the changing lithologies within formations carrying the same name *Giant Hydrocarbon Reservoirs of The World* Paul Mitchell Harris,L. James Weber,2006 Reservoirs described in this volume are located in the Middle East Asia West Africa North and South America The authors explore historical and alternative approaches to reservoir description characterization and management as well as examining appropriate levels and timing of data gathering technology applications evaluation techniques and management practices in various stages in the life of individual development projects The giant fields discussed address issues important to reservoir description characterization and management from both geologic engineering perspectives

Arabian Plate and Surroundings: Geology, Sedimentary Basins and Georesources Sami Khomsi,François M. Roure,Mansour Al Garni,Ammar Amin,2019-08-30 This book focuses on the evolution of sedimentary basins of the Arabian Plate and its surroundings Because these sedimentary basins developed in various tectonic settings from extensional or transtensional to flexural transpressional or compressional their sedimentary sequences provide unique records of the regional geology Georesources of the Arabian Plate are also described here including petroleum potential reservoirs water resources fresh water and deep saline aquifers as well as materials and ore deposits The book is made by a set of papers authored by geoscientists working in both academia and industry Numerous chapters describe some regional important geologic features and selected sedimentary basins from the Middle East North Africa and the Arabian Peninsula domains Other chapters focus on georesources A particular focus is given to the geology of Saudi Arabia This book is an important contribution to the geology of the Arabian Peninsula and its surroundings In view of the strategic and economic importance of the regional geology and georesources of the Arabian Plate and Surroundings this volume will constitute an important reference for a wide range of geoscientists interested in the geology of this region especially those active in petroleum geosciences and related industry Ultimately readers will discover important thematic maps in this book *Lithosphere Dynamics and Sedimentary Basins of the Arabian Plate and Surrounding Areas* François Roure,Ammar A. Amin,Sami

Khomsi, Mansour A. M. Al Garni, 2016-11-21 This book focuses on the links between deep earth mantle and shallow processes in areas of active tectonics in the Arabian Plate and Surrounding Areas It also provides key information for energy resources in these areas The book is a compilation of selected papers from the Task Force of the International Lithosphere Program ILP It comprises a set of research studies from the Middle East North Africa and the Mediterranean domain focusing on 1 the architecture geodynamic evolution and modelling of the Red Sea rift system and its surroundings and tectonics and sedimentation in the Gulf of Corinth 2 the crustal architecture and georesources of the North Algerian Offshore 3 Reservoirs aquifers and fluid transfers in Saudi Basins Petroleum systems and salt tectonics in Yemen and 4 Cretaceous Eocene foreland inversions in Saudi Arabia The Geology of the Arab World---An Overview Abderrahmane Bendaoud, Zakaria

Hamimi, Mohamed Hamoudi, Safouane Djemai, Basem Zoheir, 2018-09-21 This book is the result of the work of the first international congress of the ArabGU Arabian Geosciences Union which took place in Algiers Algeria in February 2016 It presents research articles and review papers on geology of the North Africa and Arabian Middle East It provides information to the public on various fields of earth sciences and encourages further research in this field in order to attract an international audience **Seismic Geomorphology** R. J. Davies, 2007 We are poised to embark on a new era of discovery in

the study of geomorphology The discipline has a long and illustrious history but in recent years an entirely new way of studying landscapes and seascapes has been developed It involves the use of 3D seismic data Just as CAT scans allow medical staff to view our anatomy in 3D seismic data now allows Earth scientists to do what the early geomorphologists could only dream of view tens and hundreds of square kilometres of the Earth's subsurface in 3D and therefore see for the first time how landscapes have evolved through time This volume demonstrates how Earth scientists are starting to use this relatively new tool to study the dynamic evolution of a range of sedimentary environments *Tectonic Evolution of the Oman*

Mountains H.R. Rollinson, M.P. Searle, I.A. Abbasi, A. Al-Lazki, M.H. Al-Kindi, 2014-04-07 The Oman Mountains contain one of the world's best exposed and best understood fold thrust belts and the largest best exposed and most intensively studied ophiolite complex on Earth This volume presents new international research from authors currently active in the field focusing on the geology of the Oman Mountains the foreland region the carbonate platforms of Northern and Central Oman and the underlying basement complex In addition there is a particular focus on geoconservation in the region The volume is divided into three main sections that discuss the tectonics of the Arabian plate using insights from geophysics petrology structural geology geochronology and palaeontology the petrology and geochemistry of the Oman Ophiolite and the sedimentary and hydrocarbon systems of Oman drawing on the geophysics structure and sedimentology of these systems The volume is enhanced by numerous colour images provided courtesy of Petroleum Development Oman **Proceedings of the**

International Field Exploration and Development Conference 2021 Jia'en Lin, 2022-09-07 This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir production stimulation and

EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 11th International Field Exploration and Development Conference IFEDC 2021 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as professional students *Proceedings of the International Field Exploration and Development Conference 2020* Jia'en Lin,2021-06-17 This book is a compilation of selected papers from the 10th International Field Exploration and Development Conference IFEDC 2020 The proceedings focuses on Reservoir Surveillance and Management Reservoir Evaluation and Dynamic Description Reservoir Production Stimulation and EOR Ultra Tight Reservoir Unconventional Oil and Gas Resources Technology Oil and Gas Well Production Testing Geomechanics The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as professional students **Geochemistry** Miloš René,Gemma Aiello,Gaafar El Bahariya,2021-03-10 Geochemistry includes new contributions to the field of granite rocks geochemistry mineralogy petrology and microstructure studies geochemistry of radioactive isotopes and geochronology It contains detailed geochemical mineralogical petrological sedimentological and geostructural studies from Europa Asia Africa South America and Australia Chapters present geochemical exploration methods isotopic studies and macro and microstructural analyses **Proceedings of the International Field Exploration and Development Conference 2023** Jia'en Lin,2024-03-12 This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir production stimulation and EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 13th International Field Exploration and Development Conference IFEDC 2023 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as students **Water Resources and Integrated Management of the United Arab Emirates** Abdulrahman S. Alsharhan,Zeinlabidin E. Rizk,2020-03-17 This book provides an inventory of water resources describes water challenges and suggests methodologies and technologies for integrated water resources management in the UAE It also summarizes efforts of water conservation and management and modern approaches for improvement of water resources management and decision making related to this valuable resource The authors are specialized in geology and hydrogeology and have been teaching and conducting scientific research on water resources in the UAE for the last three decades This book represents the main reference on water resources in the UAE for academia researchers professionals students and the

general public **Tectonic Evolution, Collision, and Seismicity of Southwest Asia** Rasoul Sorkhabi, 2017-12-21

Southwest Asia is one of the most remarkable regions on Earth in terms of active faulting and folding large magnitude earthquakes volcanic landscapes petroliferous foreland basins historical civilizations as well as geologic outcrops that display the protracted and complex 540 m y stratigraphic record of Earth s Phanerozoic Era Emerged from the birth and demise of the Paleo Tethys and Neo Tethys oceans southwest Asia is currently the locus of ongoing tectonic collision between the Eurasia Arabia continental plates The region is characterized by the high plateaus of Iran and Anatolia fringed by the lofty ranges of Zagros Alborz Caucasus Taurus and Pontic mountains the region also includes the strategic marine domains of the Persian Gulf Gulf of Oman Caspian and Mediterranean This 19 chapter volume published in honor of Manuel Berberian a preeminent geologist from the region brings together a wealth of new data analyses and frontier research on the geologic evolution collisional tectonics active deformation and historical and modern seismicity of key areas in southwest Asia

Chemostratigraphy Mu Ramkumar, 2015-02-17 Chemostratigraphy Concepts Techniques and Applications is the first collection of contributed articles that introduces young geoscientists to the discipline while providing seasoned practitioners with a standard reference that showcases the topic s most recent research and application developments This multi contributed reference on one of the youngest and most dynamic branches of the geosciences includes articles from some of the world s leading researchers This book is a one stop source of chemostratigraphy theory and application helping geoscientists navigate through the wealth of new research that has emerged in recent years Edited by one of the world s foremost chemostratigraphy experts Features contributed articles from a broad base of topics including stratigraphic correlation hydrocarbon exploration reservoir characterization and paleo climatic interpretation Includes a range of application based case studies addressing spatio temporal scales for practical field specific concepts **Evaporites** John K. Warren, 2016-05-18 The monograph offers a comprehensive discussion of the role of evaporites in hydrocarbon generation and trapping and new information on low temperature and high temperature ores It also provides a wealth of information on exploitable salts in a comprehensive volume has been assembled and organized to provide quick access to relevant information on all matters related to evaporites and associated brines In addition there are summaries of evaporite karst hazards exploitative methods and problems that can arise in dealing with evaporites in conventional and solution mining This second edition has been revised and extended with three new chapters focusing on ore minerals in different temperature settings and a chapter on meta evaporites Written by a field specialist in research and exploration the book presents a comprehensive overview of the realms of low and high temperature evaporite evolution It is aimed at earth science professionals sedimentologists oil and gas explorers mining geologists as well as environmental geologists International Approaches to Hydrocarbon Development in Disputed Zones Eduardo G. Pereira, Marianthi Pappa, Damilola S.

Olawuyi, 2024-12-23 This book analyses the legal obstacles associated with the advancement of unitization processes and

procedures at an international level Using case studies in international cross border unitization and joint development agreements the book uses regional examples from the Americas Europe Africa and the Middle East It also touches upon case studies related to ongoing disputes from the South China Sea Mediterranean Sea and Gulf of Guinea Focusing on best practices which have influenced the development of the unitization concept the book looks at the formulation of different models and agreements and their potential impact on unexplored hydrocarbon resources particularly in cases where unitization is necessary The book will be of interest to practitioners scholars and students in the field of natural resource law international law and unitization

Reservoir Quality of Clastic and Carbonate Rocks P.J. Armitage,A.R. Butcher,J.M. Churchill,A.E. Csoma,C. Hollis,R.H. Lander,J.E. Omma,R.H. Worden,2018-06-18 Reservoir quality is studied using a wide range of similar techniques in both sandstones and carbonates Sandstone and carbonate reservoir quality both benefit from the study of modern analogues and experiments but modelling approaches are currently quite different for these two types of reservoirs There are many common controls on sandstone and carbonate reservoir quality but also distinct differences due primarily to mineralogy Numerous controversies remain including the question of oil inhibition the key control on pressure solution and geochemical flux of material to or from reservoirs This collection of papers contains case study based examples of sandstone and carbonate reservoir quality prediction as well as modern analogue outcrop analogue modelling and advanced analytical approaches

Salt in the Earth Sciences Webster Mohriak,2025-08-06 A comprehensive review of salt deposition in sedimentary environments worldwide Salt is formed when water rich in evaporite minerals accumulates on the Earth s surface and then evaporates Over time pressure and tectonics change the structure and shape of salt layers Recent technological advances have improved the interpretation and modeling of subsurface salt structures Salt in the Earth Sciences Evaporite Rocks and Salt Deposition presents a global overview of salt deposition and deformation in sedimentary basins synthesizing data analysis observations theories and modeling Volume highlights include Overview of salt use by humans from prehistoric times to the modern industrial world Chemical and physical principles of evaporite deposition in sedimentary basins Effects of gravity and tectonic forces on rock salt deformation Development of salt structures in orogenic belts and deep basins Seismic interpretation methods for identification of subsurface salt structures Key sedimentological models for evaporite deposition in continental and marine environments Global examples ranging from modern hypersaline rift lakes to ancient marine salt basins Browse the other volume in this set Salt in the Earth Sciences Basin Analysis and Salt Tectonics The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Soil Erosion and Sediment Flux in Northern Jordan Sabine Kraushaar,2016-05-06 This book combines new quantitative erosion measurement methods with a geochemical fingerprint and a model based approach to measure erosion and sediment flux in the Wadi Al Arab a Mediterranean to semi arid catchment in northwest Jordan The outcomes reveal the local importance of

soil erosion and sediment yield in connection with sedimentation and pollution of surface water bodies propose managed aquifer recharge strategies that focus on in channel constructions and can be used to support local soil management strategies In Jordan one of the most water scarcity affected countries in the world erosion and sedimentation negatively impact integrative water resource management projects such as water reservoirs and groundwater recharge basins This book combines a multiple response approach with new qualitative methods such as olive mound measurements and OSL dating of Roman cistern sediments to obtain long term average erosion rates in the Mediterranean to semi arid Wadi Al Arab catchment in northwest Jordan The implementation and enhancement of a geochemical sediment fingerprint of the reservoir sediments helped to provide new insights on sediment connectivity Lastly the outcomes were compiled and tested in the SedNet model which provides a more holistic view of the results at the catchment scale and can effectively complement local management strategies

Proceedings of the International Field Exploration and Development Conference 2022 Jia'en Lin, 2023-08-05 This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir production stimulation and EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 12th International Field Exploration and Development Conference IFEDC 2022 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as professional students

Whispering the Techniques of Language: An Emotional Journey through **Sedimentary Basins And Petroleum Geology Of The Middle East**

In a digitally-driven world where displays reign supreme and quick connection drowns out the subtleties of language, the profound techniques and mental nuances concealed within phrases frequently go unheard. However, situated within the pages of **Sedimentary Basins And Petroleum Geology Of The Middle East** a interesting literary value blinking with natural emotions, lies an extraordinary quest waiting to be undertaken. Composed by a skilled wordsmith, that enchanting opus attracts viewers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the material of every word. Within the emotional depths with this poignant evaluation, we will embark upon a sincere exploration of the book is primary subjects, dissect its fascinating publishing design, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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