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**SEDIMENTARY BASINS
AND PETROLEUM GEOLOGY
OF THE MIDDLE EAST**



ELSEVIER

Sedimentary Basins And Petroleum Geology Of The Middle East

**The Emirates Center for Strategic
Studies and Research**



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

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

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

Geological Evolution of Qatar and the Arabian Peninsula Fadhil N. Sadooni, Hamad Al-Saad Al-Kuwari, 2025-09-26 This is the first book on the geology of Qatar with a special focus on its petroleum and gas potential which is studied within the context of the Arabian Plate tectonic configuration The book consists of nine chapters that introduce the history of Qatar's geologic surveys the country's surface geology and its main outcrops and physiographic subdivision the tectonic history and structural elements of the Arabian Plate and Qatar The remaining six chapters cover the stratigraphic and sedimentological history of the subsurface sediments of Qatar from the Infra Cambrian to the recent regional correlation with the neighbouring countries

Energy Portfolios U. Aswathanarayana, Rao S. Divi, 2009-04-23 This book provides an overview of the globally ongoing research and development efforts to reduce carbon emissions and costs and to improve the efficiency of emerging energy technologies It covers current and future research and development of Coal Oil Natural Gas Nuclear Power and Renewable Energy Resources The author provides optimal size capital costs powerplant operation costs and health consequences for each resource The author delineates low carbon emission alternatives and methods to mitigate environmental and health risks

Abu Tbeirah Excavations I. Area 1 Licia Romano, Franco D'Agostino, 2019-06-07 This book presents the results of the archaeological activities and specialistic studies carried out at the site of Abu Tbeirah Nasiriyah Province of Dhi Qar southern Iraq by the Iraqi Italian joint mission of the Iraqi State Board of Antiquities and Heritage and of Sapienza led by F D Agostino and L Romano Dipartimento Istituto Italiano di Studi Orientali In the volume the accomplishments of the first seven campaigns 2011 2016 are introduced together with an assessment of the palaeo environment and landscape surrounding the site After an introduction to the reasons that led to start the archaeological activities in Abu Tbeirah written by HE Dr A Al Hamdani Minister of Culture of the Republic of Iraq the diggings in the south eastern Area 1 are presented the cemetery and the other activities identified immediately under the top soil and the last phase of Building A A preliminary assessment on the Early Dynastic III Akkadian Transition pottery horizon 2450 2150 BC is presented as well At the same time the multifaceted analyses and studies carried out on Abu Tbeirah's site and findings are included in the volume

Unconventional Fossil Fuels The Emirates Center for Strategic Studies and Research, 2014-10-01 With the exploitation of unconventional fossil fuels such as shale oil and gas

becoming both economically and technically more feasible and developments of great importance occurring in the pursuit of other unconventional resources we are today witnessing what some have termed a revolution in the means of hydrocarbon extraction. Such developments will undoubtedly have major impacts on the dynamics of global energy supply and demand, energy markets and prices, and on the relative status of traditional producers and consumers. The promise of a greater abundance of unconventional hydrocarbon resources has also raised a number of pressing questions and issues relating to the environmental effects of the continued exploitation of fossil fuels. These include the potential for and consequences of further legislation to lower carbon emissions implemented by concerned nations around the world, as well as the fate of related legislative and economic incentives for the development of renewable energy technologies. Based on the proceedings of the ECSSR 19th Annual Energy Conference, *Unconventional Fossil Fuels: The Next Hydrocarbon Revolution* brings together a group of distinguished experts drawn from industry and academia to provide a strategic outlook for forthcoming developments in the field of unconventional hydrocarbon energy sources. The resultant papers compiled in this volume provide both professional and academic perspectives on these highly significant developments in the exploitation of unconventional fossil fuel resources, as well as their potential consequences for both producers and consumers. **The**

Middle and Late Jurassic Intrashelf Basin of the Eastern Arabian Peninsula A.O. Wilson, 2020-12-04. This memoir provides a thorough review of the geology of the rimmed Arabian Intrashelf Basin, reconciling differing interpretations of lithostratigraphy, sequence stratigraphy, and biostratigraphy. Variation of energy levels and facies due to its setting in the SE palaeotrade wind belt are described. The role of subtle tectonism played in developing the basin and in the Late Jurassic creating restriction by uplift and exposure of the Tethys shelf are evaluated. The intrashelf basin formed during rising sea level as a single rimmed carbonate intrashelf basin. A possible global cooling phase resulted in a lowstand which restricted the basin, resulting in petrographically unique carbonate source rock facies dominated by cyanobacterial deposition. Two subsequent 3rd order carbonate sequences largely filled the basin. Eustatic change concomitant with uplift of the Tethys shelf resulted in alternation of carbonates and evaporites (gypsum, anhydrite) across the region. The end result was a sealed intrashelf basin which preserved early formed porosity and confined generated hydrocarbons within the intrashelf basin facies.

Styles of Continental Contraction Stefano Mazzoli, Robert W. H. Butler, 2006. This Special Paper includes a selection of material on the various contractional styles and modes of deformation in internal and external zones and in deep and shallow parts of orogens. The collection of case studies discusses a broad range of processes and phenomena including thrust tectonic styles (detachment dominated vs. thick-skinned or crustal ramp dominated) in different subduction and collision orogens, modes and timing of thrust fold and fabric development, the role of tectonic inversion processes and of strain localization vs. distributed deformation, and syn-convergence extensional deformation and related tectonic exhumation in orogens. Case studies are from the Zagros, the Apennines, the Appalachians, the Tasmanides of Eastern Australia, and the

Moine Thrust Belt A review of the main subduction and collision related orogens of the world is also provided including the Alps the Himalayas the North American Cordillera the Andes the Caledonides of Scotland the Appalachians the Alice Springs orogeny in Australia and the Aleutian and Makran accretionary wedges Publisher s website

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Sedimentary Basins And Petroleum Geology Of The Middle East**

In a world inundated with displays and the cacophony of instant transmission, the profound energy and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, set within the musical pages of **Sedimentary Basins And Petroleum Geology Of The Middle East**, a fascinating work of literary brilliance that impulses with fresh emotions, lies an memorable journey waiting to be embarked upon. Written by a virtuoso wordsmith, this interesting opus courses readers on a mental odyssey, lightly revealing the latent possible and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is key themes, dissect their charming writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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