Petroleum Geology Of Mozambique Basin

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CLARE AMIYA

Petroleum Exploration Opportunities in Africa and Countries Beyond Newnes
Exploration of marine minerals by geologists and oceanographers started more than a century ago, but at that time this type of work was largely confined to the intertidal zones and shallow waters, as these areas were easily accessible. There are also records of several investigations carried out during the famous Challenger expedition in the deep sea. Since then, marine geological and mineral explorations have progressed considerably, and our knowledge of the sea at depths ranging from 4000 m to 6000 m has increased accordingly. With this development has emerged also a change in the understanding of the resources of the seabed. At present, the seabed has become a focal point of studies, not only on petroleum and other mineral resources, but also on its own evolution in the history of the earth. The concepts of continental drift and plate tectonics being well established, further surveys and exploration have helped in establishing a relationship between the origin of the oceans and the mineral potential that exists in their floor. The Indian Ocean had its birth with the dismemberment of Gondwanaland. The seabed of the Indian Ocean contains minerals ranging from beach sand and gravel to heavy minerals associated with beach deposits. There are also surface occurrences of phosphorites and manganese nodules and sub-surface deposits of petroleum and various other types of mineral. The author of this book, Dr. G. S. Roonwal, has presented several aspects of mineral resources of the Indian Ocean.
The Geology of Continental Margins The Business Year
This work discusses oil geological and political conditions in nearly 30 Third World countries, with the main focus on Africa. It is designed to serve as a guidebook to readers, providing background information as the starting point in considering investment for exploration and development within these countries.
Sedimentary Basins and Petroleum Geology of the Middle East John Wiley & Sons
''A voluminous encyclopedia of Tethyan geology and, as such, it provides an invaluable source of information for those interested in this region, and Earth history in general...The book is a must for the libraries of universities and geologic institutions.'' --- Palaios, October 1997 Volume 8 focuses on the Tethys oceanic realm and introduces new concepts such as 'transit plates' and 'seuils lithospheriques.' Contributors include new guides to understanding the distribution of Tethyan mineral and organic resources, and present insights into the role of carbonate platforms. Chapters are abundant with maps and illustrations.
The Role of Organic Petrology in the Exploration of Conventional and Unconventional Hydrocarbon Systems Springer Nature
Papers presented at the United Nations Meeting on Petroleum Exploration Strategies in Developing Countries, held from 16-20 March 1981 at the Netherlands Congress Centre, the Hague.
Elements of Petroleum Geology Bentham Science Publishers
This 144-page publication aims to provide a platform for the country's decision makers at a time of global uncertainty and act as a guide for investors looking seriously at the African economy. It covers finance, energy, mining, industry, IT and telecoms, transport and logistics, construction, real estate, agro industry, health, education, and tourism.
South African Journal of Geology Springer
Deep-water (below wave base) processes, although generallyhidden from view, shape the sedimentary record of more than 65% ofthe Earth’s surface, including large parts of ancientmountain belts. This book aims to inform advanced-levelundergraduate and postgraduate students, and professional Earthscientists with interests in physical oceanography and hydrocarbonexploration and production, about many of the important physicalaspects of deep-water (mainly deep-marine) systems. The authorsconsider transport and deposition in the deep sea, trace-fossilassemblages, and facies stacking patterns as an archive of theunderlying controls on deposit architecture (e.g., seismicity,climate change, autocyclicity). Topics include modern and ancientdeep-water sedimentary environments, tectonic settings, and howbasinal and extra-basinal processes generate the typicalcharacteristics of basin slopes, submarine canyons, contouritemounds and drifts, submarine fans, basin floors and abyssalplains.
PETROLEUM SYSTEMS ANALYSIS - CASE STUDIES. John Wiley & Sons
Rifts and passive margins are extremely important for the petroleum industry, as they are areas of high sedimentation and can contain significant oil and gas resources. This book provides a comprehensive understanding of rifts and passive margins as a whole. It synthesises in one volume the existing information devoted to specific aspects of these vitally important hydrocarbon habitats. This collection of state-of-the-art information on the topic facilitates the better use of this knowledge to assess the risks of exploring and operating in these settings and the development of systematic and predictive hydrocarbon screening tools. The book will be invaluable for a broad range of readers, from advanced geology students and researchers to exploration geoscientists to exploration managers exploring for and developing hydrocarbon resources in analogous settings.
Basin Evolution and Petroleum Prospectivity of the Continental Margins of India Springer
This book presents quantitative procedures for assessing predictions of potential oil recovery (basin size, hydrocarbon content), and economic impact (exploration cost, production, transport, and refining). Emphasis is placed on advances made in analytical methods and improved techniques developed during the last decade.
Geotechnics for Developing Africa John Wiley & Sons
Organic petrology is a discipline of geology which integrates multidisciplinary approaches for the exploration and evaluation of fossil fuel resources by conventional and unconventional procedures. Organic petrology has brought forth new, powerful analytical tools for the characterization of geological hydrocarbon systems, thus providing information where previous analytical techniques prove to be less effective. The reference provides a broad, comprehensive source of information about the application of organic petrology in the investigation of geological formations related with the production and accumulation of oil and gas. Eleven chapters cover a variety of topics (kerogens, dispersed organic matter systems, sedimentary organic matter systems, oil and gas shales, etc.). Additional information in chapters referring to examples in specific geographical locations provides a global perspective of hydrocarbon exploration. The book is an introductory reference for all scholars involved in applied organic petrology of hydrocarbon systems including graduate and undergraduate geology students, engineers and lab technicians. [Series intro] Geology: Current and Future Developments is a book series that brings together the latest contributions to geological research. Each volume features chapters contributed by academic scholars / professional experts from around the world. The scope of the book series includes (but is not limited to) topics such as plate tectonics, climate science, hydrocarbon exploration, mineral exploration, and environmental science. This series is intended as a useful compendium of scholarly reference material for geology students and professionals.
The Tethys Ocean Geological Society of London
Current and authoritative with many advanced concepts for petroleum geologists, geochemists, geophysicists, or engineers engaged in the search for or production of crude oil and natural gas, or interested in their habitats and the factors that control them, this book is an excellent reference. It is recommended without reservation. AAPG Bulletin.
Tectonic DevelThermal History and Hydrocarbon Habitat Models of Transform Margins: their Differences from Rifted Margins Springer Science & Business Media
A cross-border approach to exploration, appraisal and development is important in mature areas, such as the Atlantic Margin, and in frontier areas, such as the Barents Sea. An approach of this nature emphasizes the need to see the basin as one geological entity to maximize economic recovery and prepare the area for the energy transition. This volume offers an up-to-date, ‘geology-without-borders’ view of the stratigraphy, sedimentology and tectonics trends in these areas. It also looks at the challenges associated with differences in data continuity and nomenclature across median lines. A companion volume (SP494), Cross-Border Themes in Petroleum Geology I: The North Sea, provides a similar cross-border analysis for the North Sea Basin across the offshore boundaries of Germany, the Netherlands, Norway and the UK. Cross-Border Themes in Petroleum Geology II: Atlantic Margin and Barents Sea will be a valuable reference for every geoscientist working in the Atlantic Margin and the Barents Sea for years to come.
Oil Exploration ScholarlyEditions
HANDBOOK OF PETROLEUM GEOSCIENCE This reference brings together the latest industrial updates and research advances in regional tectonics and geomechanics. Each chapter is based upon an in-depth case study from a particular region, highlighting core concepts and themes as well as regional variations. Key topics discussed in the book are: Drilling solutions from the Kutch offshore basin Geophysical studies from a gas field in Bangladesh Exploring Himalayan terrain in India Tectonics and exploration of the Persian Gulf basin Unconventional gas reservoirs in the Bohemian Massif This book is an invaluable industry resource for professionals and academics working in and studying the fields of petroleum geoscience and tectonics.
Global Neoproterozoic Petroleum Systems Elsevier
Published by the Geological Society on behalf of PGC Ltd. (1 hardback volume in slipcase). The 8th Conference on the Petroleum Geology of NW Europe was held in September 2015 and marked the 50th anniversary of the first commercial discovery offshore in the North Sea (West Sole, in September 1965). Its focus was ‘50 Years of Learning – a Platform for Present Value and Future Success’ and its objective was to provide an update on discoveries, developments, technologies and geological concepts from the region. The 39 extensively illustrated technical papers cover the full width of recent activity and are divided into the following sections: Plays and fairways; Play assessment; Recent successes and learnings from failures; Infrastructure-led exploration and development; Late-life fields, re-development and the ‘next life’; Onshore exploration and development. The proceedings volume follows the format of many of the previous conferences since the first in 1974. Collectively these provide a unique documentation of the discovery and development of several NW European hydrocarbon provinces. The volume will be of interest to all geoscientists involved in exploration and development in NW Europe. It provides a fascinating overview of how creativity can continue to reveal hidden resources in an area that has been called ‘mature’ for at least the last 20 of its 50-year history.
Cross Border Themes in Petroleum Geology II John Wiley & Sons
This exclusive compilation written by eminent experts from more than ten countries, outlines the processes and methods for geologic sequestration in different sinks. It discusses and highlights the details of individual storage types, including recent advances in the science and technology of carbon storage. The topic is of immense interest to geoscientists, reservoir engineers, environmentalists and researchers from the scientific and industrial communities working on the methodologies for carbon dioxide storage. Increasing concentrations of anthropogenic carbon dioxide in the atmosphere

are often held responsible for the rising temperature of the globe. Geologic sequestration prevents atmospheric release of the waste greenhouse gases by storing them underground for geologically significant periods of time. The book addresses the need for an understanding of carbon reservoir characteristics and behavior. Other book volumes on carbon capture, utilization and storage (CCUS) attempt to cover the entire process of CCUS, but the topic of geologic sequestration is not discussed in detail. This book focuses on the recent trends and up-to-date information on different storage rock types, ranging from deep saline aquifers to coal to basaltic formations.

Structural and Tectonic Modelling and its Application to Petroleum Geology Geological Society of America

Worldwide, Neoproterozoic successions are major hydrocarbon producers. In North Africa, large basins with significant surface outcrops and thick sedimen-tary fills are widespread. These basins are now emerging as potential sources of hydrocarbons and are attracting interest both from geological researchers and the oil and gas industry. This volume focuses on recent developments in the understanding and correla-tion of North African basin fills and explores novel approaches to prospecting for source and reservoir rocks. The papers cover aspects of petroleum prospectivity and age-equivalent global petroleum systems, Neoproterozoic tectonics and pa-laeogeography, sequence stratigraphy, glacial events and global climatic models, faunal and floral evolution and the deposition of early source rocks. The broader aim is to compare with, and learn from, well-studied Neoproterozoic successions globally, including major environmental change, the emergence of life, the global carbon cycle and implications for hydrocarbon exploration.

Petroleum Geoscience Geological Society of London

This monograph presents a unique combination of structural and tectonic modelling with applied petroleum geological problems. Focussing on the Norwegian Continental Shelf and neighbouring areas, it includes discussion covering all scales - from development of sedimentary basins, to formation of fractures and joints on a microscale - and from exploration, to the exploitation of hydrocarbons. The book's coverage of structural and tectonic modelling, petroleum geology applications, and the treatment of the Norwegian Continental Shelf should make this book an invaluable resource book for advanced students of structural and tectonic modelling, teachers, and researchers; as well as for geologists and geophysicists in the petroleum industry.

Petroleum Abstracts. Literature and Patents Geological Society of London

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.

Evolution of the Conjugate East African-Madagascan Margins and the Western Somali Basin Academic Press

The proceedings represent a valuable reference on geotechnical problems peculiar to Africa and for engineering solutions to local problems. Topics covered are: Foundation engineering and lateral support; Methods of design and analysis; Monitoring, laboratory and field testing; Municipal, industrial and mining waste and environmental geotechnics; Soil improvement; Transportation geotechnics; Case studies.The proceedings are also an invaluable source of data on the properties of African soils, the properties of residual and tropical soils, as well as climate related problems.

World Atlas of Oil and Gas Basins Springer Science & Business Media

During the past 10 years, the Oil industry in India has seen a tremendous rise in exploration activity with several major E&P companies generating vast amount of new geological and geophysical data. The availability of such integrated data sets (gravity, magnetic, seismic, drilled wells), especially in the deep offshore basins, has led the authors to revisit earlier concepts and models in order to redefine the tectonic framework of major offshore basins along the Indian continental margins. The book covers the stratigraphic evolution, play types and the classification of major offshore basins both in shallow and deepwater environments. Incorporation of latest dataset (specially the seismic, gravity and magnetic) Analogy of global offshore basins with India Sedimentation and depositional history of Bengal fan and Indus fan Redefinition of major tectonic framework of the margins Exceleent high quality graphics that include: seismic sections, gravity-magnetic maps, conceptual geological models and new revised tectonic elements

The Evolution of Sedimentary Basins Springer

The continental margins of the world constitute the most impressive and largest physiographic feature of the earth's surface, and one of fundamentally great geological significance. Continental margins have been the subject of increasing attention in recent years, an interest focused by a body of new data that has provided new insights into their character. This interest was further stimulated by the realization that, in addition to the abundant living resources, continental margins contain petroleum and mineral resources that are accessible with existing technology. This realization, along with their basic geological importance, has provoked further research into the nature of continental margins throughout the world. A summary of these findings, as related to both recent and ancient continental margins, is the subject of this book. At various times in the past we had been approached individually to prepare a basic reference to continental margins; we then proposed to do such a volume jointly. However, the stimulus for the present volume eventually arose from a Penrose Conference arranged through the Geological Society of America. This conference was attended by specialists of numerous disciplines and from throughout the world, many of whom insisted that such a volume would be both timely and useful. Consequently, we agreed to undertake the task of assembling this book, with the objectives of making it available as soon and as inexpensively as possible.