

Nontechnical Guide To Petroleum Geology Exploration Drilling And Production 3rd Edition

Nontechnical Guide to Petroleum Geology, Exploration, Drilling, and Production
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Introduction to Petroleum Exploration for Non-geologists
Unconventional Petroleum Geology
Characteristics of Chinese Petroleum Geology
Introduction to the Petroleum Geology of the North Sea
Geology for Petroleum Exploration, Drilling, and Production
Elements of Petroleum Geology
Petroleum Geology and Exploration of the Bongor Basin
Exploring for Oil and Gas Traps
Petroleum Geology of Libya
Sedimentology and Petroleum Geology
Petroleum Geology of Ireland
Dictionary of Petroleum Exploration, Drilling & Production
Petroleum Geology of Southeast Asia
Petroleum Geoscience
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Petroleum Geology
Hydrocarbons of Eastern Central Europe
History, Exploration & Exploitation of Oil and Gas
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used by corporate training departments and colleges worldwide this is the most complete upstream guide available contents the nature of gas and oil the earth's crust where we find time deformation of sedimentary rocks sandstone reservoir rocks carbonate reservoir rocks sedimentary rock distribution mapping ocean environment and plate tectonics source rocks generation migration and accumulation of petroleum petroleum traps petroleum exploration geological and geochemical petroleum exploration geophysical drilling preliminaries drilling a well the mechanics drilling problems drilling techniques evaluating a well

completing a well surface treatment and storage offshore drilling and production workover reservoir mechanics petroleum production reserves improved oil recovery

petroleum geology is not a well defined academic subject and it includes many different aspects of the earth sciences nearly all types of insight can in some cases be useful in petroleum exploration but there are some disciplines that are most relevant this book covers some of the most critical aspects

over 1000 people have attended the three day course on which this book is based since it was instituted in 1981 by japec joint association for petroleum exploration courses key topics covered in this book are the underlaying rationale for exploration essential basic geological and geophysical exploration techniques drilling and logging wells an outline of reservoir geology and what constitutes reserves and all of these topics are brought together in a case history overview of exploration in the north sea the book is fully self explanatory needs no prior knowledge of geology or of exploration techniques and as much as possible avoids the use of technical jargon there is however a lengthy glossary of technical terms that can be used as a reference the appeal of the book extends far beyond the audience originally envisaged for the japec course anyone interested in finding out what petroleum exploration is all about will enjoy this volume

unconventional petroleum geology second edition presents the latest research results of global conventional and unconventional petroleum exploration and production the first part covers the basics of unconventional petroleum geology its introduction concept of unconventional petroleum geology unconventional oil and gas reservoirs and the origin and distribution of unconventional oil and gas the second part is focused on unconventional petroleum development technologies including a series of technologies on resource assessment lab analysis geophysical interpretation and drilling and completion the third and final section features case studies of unconventional hydrocarbon resources including tight oil and gas shale oil and gas coal bed methane heavy oil gas hydrates and oil and gas in volcanic and metamorphic rocks provides an up to date systematic and comprehensive overview of all unconventional hydrocarbons reorganizes and updates more than half of the first edition content including four new chapters includes a glossary on unconventional petroleum types including tight sandstone oil and gas coal bed gas shale gas oil and gas in fissure cave type carbonate rocks in volcanic reservoirs and in metamorphic rocks heavy crude oil and natural bitumen and gas hydrates presents new theories new methods new technologies and new management methods helping to meet the demands of technology development and production requirements in unconventional plays

characteristics of chinese petroleum geology geological features and exploration cases of stratigraphic foreland and deep formation traps systematically presents the progress made in petroleum geology in china and highlights the latest advances and achievements in oil gas exploration and research especially in stratigraphic foreland and deep formation traps the book is intended for researchers practitioners and students working in petroleum geology and is also an authoritative reference work for foreign petroleum exploration experts who want to

learn more about this field in china as president of the chinese petroleum society former vice president of petrochina company limited and academician of the chinese academy of sciences dr chengzao jia has been engaged in geological research for 30 years and in oil gas exploration for more than 20 years

elements of petroleum geology fourth edition is a useful primer for geophysicists geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area it is also an excellent introductory text for a university course in petroleum geoscience this updated edition includes new case studies on non conventional exploration including tight oil and shale gas exploration as well as coverage of the impacts on petroleum geology on the environment sections on shale reservoirs flow units and containers ior and eor giant petroleum provinces halo reservoirs and resource estimation methods are also expanded written by a preeminent petroleum geologist and sedimentologist with decades of petroleum exploration in remote corners of the world covers information pertinent to everyone working in the oil and gas industry especially geophysicists geologists and petroleum reservoir engineers fully revised with updated references and expanded coverage of topics and new case studies

this book offers case study of the tridimensional exploration in whole exploration cycle with comprehensive and systematic geological and geophysical studies in the bongor basin focused on the typical intensively inversed rift basin the bongor basin in chad this book establishes petroleum geology model accumulation model of the typical intensively inversed rift basin and ensemble exploration techniques by studying comprehensively through the lens of structural geology petrology geochronology sedimentology paleontology petroleum geochemistry petroleum geology and hydrocarbon accumulation dynamics studies on both granite buried hill and sandstone reservoir based on the cases in whole exploration cycle and abundant primary research resource some are first published in public in the bongor basin this book is a valuable reference for researchers managers instructors and students who engaged in petroleum exploration

presents basic concepts of petroleum geology and proven petroleum exploration techniques for locating oil and gas accumulations with viable prospects for professionals with two or more years experience who have a basic knowledge of most aspects of exploration methods for the most part chapters f

petroleum geology of libya second edition systematically reviews the exploration history plate tectonics structural evolution stratigraphy geochemistry and petroleum systems of libya and includes valuable new chapters on oil and gas fields production and reserves since the previous edition published in 2002 there have been numerous developments in libya including the lifting of sanctions a new licensing system with licensing rounds in 2004 2005 2006 and 2007 many new exploratory wells discoveries and field developments and a change of regime a large amount of new data has been published on the geology of libya in the past fourteen years but it is widely scattered through the literature much of the older data has been superseded and several of the key publications especially those published in libya are difficult to access this second edition provides an updated source of

reference which incorporates much new information particularly on petroleum systems reserves oil and gas fields play fairways and remaining potential it presents the results of recent research and a detailed description of libyan offshore geology the book includes an extensive and comprehensive bibliography presents over 180 full colour illustrations including maps diagrams and charts illustrating the key concepts in a clear and concise manner authored by two recognized world authorities on geology in libya with over 40 years experience in libya between them provides an expanded and updated version of the bestselling previous edition nicknamed the explorationist s bible lays the foundation for the post revolution exploration age in libya

this book is intended to give an introduction to sedimentology and petroleum geology at undergraduate level these two subjects have been treated together because of the close links between sedimentology as an academic discipline petroleum geology which is the application of sedimentology and a number of other aspects of petroleum exploration and production the oil industry is by far the most important employer of sedimentologists and the lively interaction that takes place between the academic community and the research laboratories and exploration departments of the oil industry has been very fruitful for both parties our knowledge of sedimentary basins now depends to a very large extent on data obtained by commercial petroleum exploration studies of actual rocks in outcrops particularly if they are extensive will always be important for sedimentologists but subsurface data like seismic sections and well logs provide us with in much information on the three dimensional distribution of facies that we could not otherwise obtain subsurface techniques are certainly important for petroleum geologists but also other sedimentologists should be able to use subsurface data i have therefore included elementary introductions to the use of well logs and seismic methods in this book with fundamentals of external controls on sedimentation such as basin subsidence and sea level changes i have tried to present the state of knowledge at this level without referring to the original research papers except when specific data are quoted or used in illustrations

petroleum geology of ireland provides a comprehensive review of the petroleum geology of ireland and its very extensive continental shelf the authors chart the fifty year history of petroleum exploration in ireland from early drilling onshore to the present frontier exploration in the deep water atlantic basins the structural framework and regional geological setting of the sedimentary basins is described in two chapters and this is followed by a review of the history of irish onshore and offshore exploration together with an outline of the licensing framework the onshore basins largely carboniferous and older are then considered as they guided the initial understanding of the younger offshore geological framework pre permian to cenozoic stratigraphy of the region is explained in five chapters each illustrated by palaeogeographic maps that are based both on onshore geology and on the results of offshore drilling the major regional groups of basins are then considered and for each there is analysis of basin development and petroleum systems together with a review of their exploration history plays and prospects the celtic sea basins south of ireland contain a thick mesozoic succession and host a number of producing petroleum fields and sub commercial discoveries the atlantic margin basins with thick successions of mesozoic and cenozoic sediments

are the largest and least well explored of the irish basin groups but offer a number of promising oil and gas discoveries and frontier prospects finally the northern ireland and irish sea basins onshore or in shallow waters contain a thick upper palaeozoic to early mesozoic succession which provides important insights into the regional geological evolution and also the challenges of trying to understand the petroleum habitat of ireland future and potential petroleum prospects in the irish offshore region are reviewed in the final chapter which also examines briefly the gas storage potential of onshore and offshore reservoirs the book which contains comprehensive reference lists with each chapter will be of value to oil industry geoscientists seeking to understand irish onshore and offshore geology and to academic researchers with an interest in marine and petroleum geology

a thorough update with more than 8 000 new definitions and entries covering everything in the upstream oil and gas sector this new second edition also covers land legal accounting and finance terms written in easy to understand language with more than 100 illustrations the second edition of dr hyne s dictionary offers the ultimate reference book for anyone regardless of technical background

this volume gives rapid access to key aspects of the petroleum geology of se asia including economic background plate tectonic models petroleum charging and reservoir systems as well as detailed field and reservoir studies it provides substantial new data and interpretations on the oil and gas exploration of the region

petroleum geoscience is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas uniquely this book is structured to reflect the sequential and cyclical processes of exploration appraisal development and production chapters dedicated to each of these aspects are further illustrated by case histories drawn from the authors experiences petroleum geoscience has a global and geo temporal backdrop drawing examples and case histories from around the world and from petroleum systems ranging in age from late pre cambrian to pliocene in order to show how geoscience is integrated at all levels within the industry the authors stress throughout the links between geology and geophysics on the one hand and drilling reservoir engineering petrophysics petroleum engineering facilities design and health safety and the environment on the other petroleum geoscience is designed as a practical guide with the basic theory augmented by case studies from a wide spread of geographical locations covers all the key aspects of the origin of petroleum exploration and production it takes account of the modern emphasis on the efficient utilisation of reserves on new methods in exploration such as 3 d seismics book takes value chain approach to petroleum geoscience first new text on petroleum geology for geology undergraduates to be published in the last ten years packed full of real life case studies from petroleum industry

leading east european petroleum explorationists from albania bulgaria the czech republic slovakia former east germany hungary poland and romania present a systematic view of petroleum geology exploration history production reserves and potential in their countries which until recently have been closed to western observers practitioners and

scientists working in the field of hydrocarbon exploration will find valuable information for an interesting target area

this edited volume discusses scientific and technological aspects of the history of the oil and gas industry in national and international contexts the search for oil for industrial uses began in the nineteenth century the first drills made in azerbaijan and the united states this intense search for a substance to become one of the most important energy sources was many times based on skill as well as luck resulting in knowledge and the development of prospecting and exploration technologies the demand for oil improved expertise in geological science in areas such as micropaleontology stratigraphy or sedimentology and informed different disciplines such as geophysics these contributions made possible not only the discovery of new oil fields but also new applications and methods of exploration beyond the scientific and technological aspects an industry that grew to such considerable size also impacted the political economic social cultural environmental and diplomatic issues in history the book approaches these changes in different scales countries areas and perspectives this edited book appeals to researchers student practitioners in various fields from geology and geophysics to history it is also an important resource for professionals in the oil and gas industry

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