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Nontechnical Guide to Petroleum Geology, Exploration, Drilling, and Production** Elements of Petroleum Geology Petroleum Geoscience Unconventional Petroleum Geology Introduction to Petroleum Exploration for Non-geologists **Petroleum Geology** Geology for Petroleum Exploration, Drilling, and Production Petroleum Geology of Libya Structural Styles in Petroleum Exploration **Exploring for Oil and Gas Traps** **Basin Analysis in Petroleum Exploration** **Inorganic Geochemistry** Petroleum Geology of the Palo Duro Basin, Texas Panhandle Volcanic Reservoirs in Petroleum Exploration Nontechnical Guide to Petroleum Geology, Exploration, Drilling and Production Sedimentology and Petroleum Geology Petroleum Geoscience **Dictionary of Petroleum Exploration, Drilling & Production** History, Exploration & Exploitation of Oil and Gas Petroleum Geoscience **Characteristics of Chinese Petroleum Geology** **Field Methods for Petroleum Geologists** Hydrocarbons of Eastern Central Europe **Geochemistry in Petroleum Exploration** Development Geology Reference Manual Petroleum Geology of the North Sea Petroleum Exploration and Exploitation in Norway Introduction to the Petroleum Geology of the North Sea **Surface Geochemistry in Petroleum Exploration** Hydrocarbon Seals Marine Oil and Gas Exploration in China **Petroleum Geology and Exploration of the Bongor Basin** **Petroleum Geology of North Africa** Petroleum Formation and Occurrence **Petroleum Exploration: A Quantitative Introduction** Petroleum Geology of the Black Sea Hydrocarbon Exploration to Exploitation West of Shetlands Practical Petroleum Geology Petroleum Sedimentology Stratigraphic Traps

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This volume addresses the challenges facing explorers and developers alike in a region that is becoming a major focus of the petroleum industry in the United Kingdom, Faroes and North Norway. Several West of Shetland fields are still in the appraisal phase almost a

decade after discovery. Sub-volcanic exploration risks remain high: sub-volcanic structural traps are imaged poorly, and so the geophysical community is responding with the application of latest technology. The more simple reservoirs might not be large enough to prompt informed and speedy development decisions; larger fields might have a combination of complexities, requiring a phased approach to the development. Infrastructure has been slow to arrive and planned developments have been subject to dramatic swings in fiscal regime ranging from special allowances to unexpected tax increases. Environmental challenges are significant when moving into more remote, deeper water. The perception of these challenges by the third parties has become much more acute. To sustain its right to operate, the industry has to demonstrate safe drilling operations and appropriate response capability with government agencies. This comprehensive textbook presents an overview of petroleum geoscience for geologists active in the petroleum industry, while also offering a useful guide for students interested in environmental geology, engineering geology and other aspects of sedimentary geology. In this second edition, new chapters have been added and others expanded, covering geophysical methods in general and electromagnetic exploration methods in particular, as well as reservoir modeling and production, unconventional resources and practical petroleum exploration. 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. The first work of its kind, Volcanic Reservoirs in Petroleum Exploration summarizes the current research and exploration techniques of

*volcanic reservoirs as a source of oil and gas. With a specific focus on the geological features and development characteristics of volcanic reservoirs in China, it presents a series of practical exploration and evaluation techniques based on this research. Authored by an award-winning petroleum geologist, it introduces exploration and outcome prediction techniques that can be used by scientists in any volcanic region worldwide. Volcanic reservoirs as new sources of petroleum resources are a hot topic in petroleum exploration. Although volcanic rock cannot generate hydrocarbons, it can serve as a reservoir for hydrocarbons when conditions permit. This book explains the differences between volcanic reservoirs and other major reservoir types, and describes effective methods for examining volcanic distribution and predicting volcanic reservoirs, providing a framework for systematic studies throughout the world. Includes an entire section dedicated to current trends in volcanic prediction and evaluation technology More than 90 full-color photos illustrate the text in greater detail Case studies conclude each chapter, helping scientists apply the book's concepts to real-life scenarios The application of surface geochemical methods to finding petroleum is based on the detection of hydrocarbons in the soil that have leaked from a petroleum reservoir at depth. While the seal over the deposit was once considered impermeable, surface geochemistry data now show that such leakage is a common occurrence. Despite its simplicity and low costs, surface geochemistry remains controversial because, until now, there was no objective and in-depth treatment of the various methods of surface geochemistry for oil exploration. Written by a successful oil finder, this practical guide: * surveys a broad array of surface geochemistry techniques, from soil gases to microbiology, and provides clear strategies for applying them to the high-stakes art of petroleum exploration * offers numerous case studies, both successes and failures, to show the strengths and weaknesses of different approaches * examines statistical and spatial variation, surveys and models in surface geochemistry, demonstrating how each analytical tool can be used to optimize accuracy * integrates surface geochemistry data interpretation with data from conventional methods of oil exploration, and considers the economics of surface geochemical approaches * discusses key topics that have been neglected in the literature, such as grid design and the effects of soils. Geologists, geophysicists, geological engineers and exploration*

managers involved in petroleum exploration will gain valuable insights from this volume. By presenting and evaluating each method of surface geochemistry in a neutral tone, this book enables the reader to select and employ these methods with greater confidence. The publication of this book Petroleum Formation and Occurrence by Bernard Tissot and Dietrich Welte will indeed be welcomed by pertroleum geologists, petroleum geochemists, teachers and students in these fields, and all others who are interested in the origin and accumulation of hydrocarbons in nature. It is indeed a privilege for us to have the opportunity of sharing with these two eminent scientists the wealth of information they have acquired and developed during long careers devoted to concentrated scholarly study and practical investigation of the nature, origin, and occurrence of petroleum. Professor Bernard Tissot graduated from the Ecole Nationale Superieure des Mines in 1954 and from the Ecole Nationale Superieure du Petrole in 1955. In 1955 he received a D. E. S. in geology from the University of Grenoble and then began research work on petroleum geology at the Institut Fran~ais du Petrole. He was made head of the Department of Geochemistry in 1965, and since 1970 has also been teaching organic geochemistry at the Ecole Nationale Superieure du Petrole where he became Profes sor in 1973. Professor Tissot has had a broad and varied background of practical experience. He has been a member of exploration teams in France, New Caledonia, and Sahara. In 196G-1963 he headed a mission of the IFP to the Department of National Development of Australia. 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. This book is intended primarily as a textbook for geolo gists engaged in petroleum exploration. Its purpose is to introduce the reader to organic geochemistry and to show how to apply geochemistry advantageously in an explora tion program. I have made the explicit assumption that most readers will have a sound background in geology but far less knowledge of, or interest in, chemistry. Be cause there is no need for an exploration geologist to be an expert in organic chemistry, the amount of chemistry used in the book is rather modest. It is, however, often important for a geologist to understand some basic vocab ulary. The

emphasis in this book is on applications of geo _chemistry to hydrocarbon exploration. Most of the analyt ical techniques are discussed only briefly, because although a geologist should know what a gas chro matograph is, he or she is unlikely to be asked to repair one. If more detailed knowledge does prove necessary, a laboratory is the proper place to learn. The strengths and weaknesses of the various analytical techniques are discussed so that a geologist will be able to anticipate pitfalls, cull bad data, and choose an appropri ate analytical program. On-the-job experience will prove invaluable in converting the basic information from this text into a practical working knowledge. 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. Petroleum Geoscience, 2nd edition is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas. The aim this updated second edition remains the same - to provide a comprehensive grounding in the geological sciences as applied to exploration 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 new case histories drawn from the authors' experiences. Petroleum Geoscience, 2nd edition 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. Discovery and production of petroleum underpinned global development throughout the twentieth century but times are changing. Combustion of fossil fuels and release of greenhouse gases, mainly carbon dioxide, is driving climate change. The skills and knowledge of the petroleum

geoscientist also find application in carbon storage in and heat recovery (geothermal energy) from the Earth. This second edition addresses such technologies in the newly added Chapter 7. The target readership is mainly final year undergraduates and postgraduates in the earth sciences together with little-experienced technical staff within the petroleum industry. The book draws on a large variety of examples from many basins around the world and as a consequence should appeal to those interested in petroleum geoscience, whether they be in Aberdeen or Abu Dhabi, Houston or Ho Chi Min. 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 Knowledge of the principles and methods of petroleum sedimentology is essential for oil and gas exploration and exploitation. This book is designed as an introductory text for students in petroleum geology and applied sedimentology as well as a useful companion for advanced technicians, explorationists, geophysicists and petroleum engineers. Source rock, lithology and type of trap define the quality of a hydrocarbon accumulation. This interrelationship is exemplified by seven case histories worldwide (NW Europe, Saudi Arabia, U.S.A., Mexico, CIS, China). Moreover, successful exploitation and enhanced oil recovery often depend on an adequate knowledge of the sedimentology of a reservoir. Photographs illustrate macroscopic and microscopic aspects of source rocks as well as reservoir sandstones and limestones that are most important for hydrocarbon exploration. A comprehensive list of references encourages further study. A unique presentation of the scope and

content of the field of petroleum geology from the standpoint of the practicing petroleum geologist. Includes chapters on basic geological concepts, the sedimentation process, accumulation of hydrocarbons, exploration, economic examination, drilling of exploratory wells, recovering oil and gas (reservoir geology), and the relationship of geology to the petroleum industry as a whole. Sponsored by the Association of Desk and Derrick Clubs. 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 sedimen tology as an academic dicipline, petroleum geology, which is the application of sedimentology, and a number of other aspects of petroleum exploration and production. The oil industry ist 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 pe troleum geologists, but also other sedimentologists should be able to use subsurface data. I have therefore included elementary intro ductions 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. This conference was arranged by the Norwegian Petroleum Society in order to commemorate the first 25 years of exploration on the Norwegian Continental Shelf. Sixty papers and posters were presented of which 25 have been selected for this volume. Since the start of exploration activities during the mid 1960's the North Sea has not only proved to be one of the main petroleum provinces in the world, but has also established itself as an excellent laboratory for geoscientific research and application. This development has been stimulated greatly by the openess towards

exchange of technical data encouragement by the Norwegian authorities. The objective of this book is to assess the results of 25 years of exploration in Norway. It focuses on lessons learned from past experiences as well as considering future challenges facing geoscientists in the industry (relating to both exploration and exploitation activities). Included, are papers which assess the status and future trends of exploration in the main geological provinces on the Norwegian Continental Shelf from the Central Graben in the south to Svalbard and the Russian Artic in the north. 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 accumilation 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. This is a how-to encyclopedia of prospecting for oil and gas. The book, an addition to the Handbook set of the Treatise of Petroleum Geology, focuses on procedures and proven petroleum exploration techniques that are critical for generating viable prospects. The twenty-one chapters deal with exploration philosophy, the concept and critical elements of traps in a petroleum system, evaluating the elements of a petroleum province, and methods for predicting reservoir occurrence, quality, and performance. 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 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. In January 1996 a total of 270 conference participants gathered for 3 days in Trondheim, Norway, to focus on and to discuss the complex topic of hydrocarbon seals particularly related to deformation zones and to caprocks. The conference was the first in Norway and one of the first in Europe to exclusively address this very important subject. The purpose of the conference was to present some of the most recent research results, to establish state-of-the-art with respect to understanding hydrocarbon seals and to discuss where to go from here to find some of the keys to successful future exploration and enhanced oil and gas recovery. Out of the presented papers and posters, 17 are compiled and published in this volume. These provide a good overview of and an introduction to the numerous aspects covered during the fruitful days in Trondheim. Since the 3rd edition of this publication, emphasis within the petroleum industry has shifted from exploration to appraisal and development of existing hydrocarbon resources. This change is reflected in this new 4th edition, which has been significantly expanded to accomodate additional material. The centrepiece of the book, however, remains a series of descriptions, in stratigraphic order, of the depositional history and hydrocarbon related rock units of the North Sea. The Black Sea remains one of the largest underexplored rift basins in the world. Future success is dependent on a better understanding of a number of geological uncertainties. These include reservoir and source rock presence and quality, and the timing of migration of hydrocarbons relative to trap formation. An appreciation of the geological history of the Black Sea basins and the surrounding orogens is therefore key. The timing of basin formation, uplift of the margins, and of facies distribution

remain issues for robust debate. This Special Publication presents the results of 15 studies that relate to the tectono-stratigraphy and petroleum geology of the Black Sea. The methodologies of these studies encompass crustal structure, geodynamic evolution, stratigraphy and its regional correlation, petroleum systems, source to sink, hydrocarbon habitat and play concepts, and reviews of past exploration. They provide insight into the many ongoing controversies concerning Black Sea regional geology and provide a better understanding of the geological risks that must be considered for future hydrocarbon exploration. Provides an introduction to petroleum exploration methods, referring to both geophysical and geochemical techniques and the logistics of various drilling techniques and well logging methods for oil and gas exploration. The second part of the book focuses on using these methods for petroleum exploration within the context of northern Africa. The geology of northern Africa is described and computerized lithographic correlation charts are presented and applied to petroleum exploration targets from the region. 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. 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. The Treatise of Petroleum Geology was conceived during a discussion held at the annual AAPG meeting in 1984 in San Antonio, Texas. This discussion led to the conviction that AAPG should publish a state-of-the-art textbook in petroleum geology, aimed not at the student, but at the practicing petroleum geologist. The textbook gradually evolved into a series of three different publications (Reprint series, Atlas, Handbook). The set was designed to represent the cutting edge in petroleum exploration knowledge and application. Stratigraphic traps II comprises a collection of detailed field studies that illustrate the many ways oil and gas are trapped and to serve as a guide to the petroleum geology of basins where these fields are found. Petroleum geoscience comprises those geoscientific disciplines which are of greatest significance for the exploration and recovery of oil and gas. These include petroleum geology, of which sedimentary geology is the main foundation along with the contextual and modifying principles of regional, tectonic and structural geology. Additionally, biostratigraphy and micropalaeontology, organic geochemistry, and geophysical exploration and production techniques are all important tools for petroleum geoscientists in the 21st century. This comprehensive textbook present an overview of petroleum geoscience for geologists destined for the petroleum industry. It should also be useful for students interested in environmental geology, engineering geology and other aspects of sedimentary geology This book systematically introduces the petroleum geological characteristics and exploration theory of marine strata in China. On the basis of four major basins, 14 typical cases have been studied in which 13 cases are from conventional oil and gas fields and 1 case is from shale gas field, along with their hydrocarbon generation, migration, accumulation, and distribution characteristics. The book provides a reference for geologists around the globe to understand the exploration history, methods and advances in marine strata oil and gas exploration in China. This unique text offers a friendly, fascinating introduction to the world of petroleum exploration for readers with little or no technical background on the subject. Refreshingly clear and jargon-free, the book covers a wide range of

topics, including the underlying rationale for exploration, essential basic geological and geophysical exploration techniques, drilling and logging wells, reserves, and an outline of reservoir geology. A helpful case history of exploration in the North Sea is presented to illustrate how the numerous processes work together, and a lengthy glossary of technical terms serves as an invaluable aid for those approaching the subject for the first time. Perfect for all those interested in petroleum exploration, the book will be especially welcomed by students and by non-geologists working in industry, such as draughtspeople, engineers, accountants, and lawyers. This volume summarizes in 16 chapters the petroleum geology of the Békés basin with respect to its geological setting in the Pannonian Basin. The work was accomplished by a joint effort of the Hungarian Oil and Gas Co. and U.S. Geological Survey. In contrast with other books that discuss the geology of Hungary, this volume identifies, in detail, potential source rocks and reservoir rocks, and evaluates the maturation, generation, migration, and entrapment of hydrocarbons. The outstanding points are: (1) its summary of the petroleum geology of the Békés basin with respect to its structural and sedimentological setting in the Pannonian Basin; (2) the identification of geographic areas, structural trends and stratigraphic zones that remain relatively unexplored; and (3) a summary of `petroleum plays' with an assessment of their recoverable, undiscovered resources of oil and gas. This book is primarily for petroleum geologists interested in oil and gas exploration in Hungary, and earth scientists interested in the geology of the Pannonian Basin. Petroleum is not as easy to find as it used to be. In order to locate and develop reserves efficiently, it's vital that geologists and geophysicists understand the geological processes that affect a reservoir rock and the oil that is trapped within it. This book is about how and to what extent, these processes may be understood. The theme of the book is the characterization of fluids in sedimentary basins, understanding their interaction with each other and with rocks, and the application of this information to finding, developing and producing oil and gas. The first part of the book describes the techniques, and the second part relates real-life case histories covering a wide range of applications. Petroleum geology, particularly exploration, involves making the best of incomplete results. It is essentially an optimistic exercise. This book will remove some of the guesswork. Brings together the most important

geochemical methods in a single volume. Authored by two well-respected researchers in the oil industry. Real-life, international case histories. This book is about exploration for oil and gas and focuses particularly on seismic exploration in the hunt for hydrocarbons. The first part, "The Hunt for Hydrocarbons," gives general background informa tion, with an introductory chapter on the beginnings of the oil business followed by three chapters that in clude elements of petroleum geology, geophysical methods, and drilling and logging. The second part, "Seismic Exploration for Hydrocarbons," consists of two chapters that describe rudiments of the seismic method and velocity measurements; two chapters dis cussing theory based on wave propagation and the convolutional model; and a chapter devoted to each of the three phases of seismic exploration: acquisi tion, processing, and interpretation. I have concen trated on seismic exploration because most of the oil and gas that has been found has been located by this method, and it is the only method that has the poten tial for the increased precision needed in what Hal bouty (1982) calls "the deliberate search for the subtle trap. " In contrast to elementary and introductory books that present the seismic method superficially and qualitatively, this book develops the method quanti tatively, using only elementary mathematics (algebra and trigonometry), so that readers should be able to do things afterwards that they couldn't do before, and thereby get a deeper appreciation of the business of hunting for hydrocarbons. The book also probes into some sophisticated topics that wouldn't be mentioned IX x use in short courses at a variety of levels.

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