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Sedimentology and Petroleum Geology Springer Verlag Principles of Sequence Stratigraphy Newnes Principles of Sequence Stratigraphy, Second Edition presents principles to practical workflow that guide applications in a consistent manner that is independent of model, geological setting and the types and resolution of the data available. The book explains the points of agreement and difference between the various approaches to sequence stratigraphy, while also defining the common ground that affords the standard application of the method. This enables the practitioner to avoid nomenclatural and methodological confusions and apply sequence stratigraphy. The text is richly illustrated with hundreds of full-color diagrams and examples of outcrop, borehole and seismic data. The book's balanced approach helps students and professionals acquire a sound understanding of the concepts and methodology. It will appeal to geologists, geophysicists and engineers with interest in basin analysis, stratigraphy and sedimentology, as well as in all economic applications that concern the exploration and production of natural resources, including water, hydrocarbons, coal and sediment-hosted mineral deposits. Updates the award-winning first edition in all aspects of sequence stratigraphy, from the underlying theory to the practical applications Presents the standard approach to sequence stratigraphic methodology, nomenclature, and classification; the role of modeling in sequence stratigraphy, and the difference between modeling and methodology Discusses the roles of scale and stratigraphic resolution in sequence stratigraphy, and the workflow that affords a consistent application of the method irrespective of the types of data available Describes the three-dimensional nature of the stratigraphic architecture, and the variability of stratigraphic sequences with the tectonic setting, depositional setting, and the climatic regime Illustrates all concepts with high-quality, full-color diagrams, outcrop photographs, and subsurface well data and seismic images Petroleum Sedimentology Springer 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. Analytical Sedimentology Springer Science & Business Media The first edition of Practical Sedimentology contained discussions of principles and techniques that could be applied to the analysis of sediments in the field and in laboratories supported by colleagues at the University of Canterbury and the University of New England, Lismore, have helped with practical. When considering a revised edition, we felt that it was inappropriate to restrict consideration to the simple and common discussed in this volume. At the University of Canterbury, we techniques because so many modern analyses of sediments are particularly grateful to K. Swanson for advice on preparing use sophisticated and often expensive equipment to examine ing materials for scanning electron microscopy and paleontology sediments and sedimentary rocks. A review of the wide range of logical specimens; to G. Coates (working at the university at of available techniques and equipment was not feasible in the time of the first edition of Practical Sedimentology) for same volume as a review of principles. The original intent to compilation of, and additions to, the procedures for textural analysis and some tables and sketches; to Ted Montague for produce a concise summary of practical sediment studies in an inexpensive format was maintained, but now in the form the bulk of the chapter on borehole sedimentology; to Dr. J. Stratigraphic Systems Origin and Application Academic Press The stratigraphic record represents the history of processes and events that occurred at the surface of the earth. Presently, there are no textbooks on the market that integrate physical, chemical, and biological processes to predict stratigraphic patterns. Visher's authoritative Stratigraphic Systems fills this niche. It outlines the principle stratigraphic concepts for exploration of hydrocarbon accumulations, with more than 700 illustrations. Can be used as a primary textbook for an undergraduate course in stratigraphy and sedimentation. * CD-ROM features expert systems software for identifying or verifying stratigraphic intervals * Provides

historical and paleogeographic context for observations * Conveniently organizes stratigraphic systems into basinal frameworks * Incorporates statistical probability analysis, yet is not mathematically demanding * Stresses an analytical, rather than a descriptive, approach to predicting temporal and areal stratigraphic patterns * Includes more than 700 figures and tables

Deep-Water Processes and Facies Models: Implications for Sandstone Petroleum Reservoirs Elsevier This rock-based book is an attempt to link deep-water process sedimentology with sandstone petroleum reservoirs. In presenting a consistent process interpretation, the author has relied on his description and interpretation of core and outcrop (1:20 to 1:50 scale) from 35 case studies (which include 32 petroleum reservoirs), totaling more than 30,000 feet (9,145 m), carried out during the past 30 years (1974-2004). This book should serve as an important source of information for students on history, methodology, first principles, advanced concepts, controversies, and practical applications on deep-water sedimentology and petroleum geology. * Discusses the link between deep-water process sedimentology and petroleum geology * Addresses criteria for recognizing deposits of gravity-driven, thermohaline-driven, wind-driven, and tide-driven processes in deep-water environments * Provides head-on approach to resolve controversial process-related problems

Regional Sedimentology and Petroleum Geology of Marine, Late Bathonian-Valanginian Sandstone in the North Sea Marine and Petroleum Geology 5(1) 1988

Elements of Petroleum Geology Academic Press **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

Geochemistry of Sedimentary Carbonates Elsevier This book covers the more basic aspects of carbonate minerals and their interaction with aqueous solutions; modern marine carbonate formation and sediments; carbonate diagenesis (early marine, meteoric and burial); the global cycle of carbon and human intervention; and the role of sedimentary carbonates as indicators of stability and changes in the Earth's surface environment. The selected subjects are presented with sufficient background information to enable the non-specialist to understand the basic chemistry involved. Tested on classes taught by the authors, and approved by the students, this comprehensive volume will prove itself to be a valuable reference source to students, researchers and professionals in the fields of oceanography, geochemistry, petrology, environmental science and petroleum geology.

Fluvial Sedimentology Calgary, Alta. : Canadian Society of Petroleum Geologists

Reservoir Compartmentalization Geological Society of London "Reservoir compartmentalization - the segregation of a petroleum accumulation into a number of individual fluid/pressure compartments - controls the volume of moveable oil or gas that might be connected to any given well drilled in a field, and consequently impacts 'booking' of reserves and operational profitability. This is a general feature of modern exploration and production portfolios, and has driven major developments in geoscience, engineering and related technology. Given that compartmentalization is a consequence of many factors, an integrated subsurface approach is required to better understand and predict compartmentalization behaviour, and to minimize the risk of it occurring unexpectedly. This volume reviews our current understanding and ability to model compartmentalization. It highlights the necessity for effective specialist discipline integration, and the value of learning from operational experience in: detection and monitoring of compartmentalization; stratigraphic and mixed-mode compartmentalization; and fault-dominated compartmentalization"--Page 4 of cover.

Clastic Hydrocarbon Reservoir Sedimentology Springer This book presents a comprehensive assessment of clastic sedimentology and its application to reservoir geology. It covers the theoretical foundations of the topic and its use for scientists as well as professionals in the field. Further, it addresses all aspects of reservoir sedimentology, clastic sequence stratigraphy, sedimentation, reservoir diagenesis and heterogeneity, as well as depositional systems (alluvial, fluvial, lacustrine, delta, sandy coast, neritic, deep-water) in detail. The research team responsible for this book has been investigating clastic sedimentology for more than three decades and consists of highly published and cited authors. The Chinese edition of this book has been a great success, and is popular among sedimentologists and petroleum geologists alike.

The Geology of Fluvial Deposits Sedimentary Facies, Basin Analysis, and Petroleum Geology Springer Fluvial deposits represent the preserved record of one of the major nonmarine environments. They accumulate in large and small intermontane valleys, in the broad valleys of trunk rivers, in the wedges of alluvial fans flanking areas of uplift, in the outwash plains fronting melting glaciers, and in coastal plains. The nature of alluvial assemblages - their lithofacies composition, vertical stratigraphic record, and architecture - reflect an inter play of many processes, from the wandering of individual channels across a floodplain, to the long-term effects of uplift and subsidence. Fluvial deposits are a sensitive indicator of tectonic processes, and also carry subtle signatures of the climate at the time of deposition. They are the hosts for many petroleum and mineral deposits. This book is about all these subjects. The first part of the book, following a historical introduction, constructs the stratigraphic framework of fluvial deposits, step by step, starting with lithofacies, combining these into architectural elements and other facies associations, and then showing how these, in turn, combine to represent distinctive fluvial styles. Next, the discussion turns to problems of correlation and the building of large-scale stratigraphic frameworks. These basin-scale constructions form the basis for a discussion of causes and processes, including autogenic processes of channel shifting and cyclicity, and the larger questions of allogenic (tectonic, eustatic, and climatic) sedimentary controls

and the development of our ideas about nonmarine sequence stratigraphy. **The Gulf of Mexico Sedimentary Basin Depositional Evolution and Petroleum Applications** Cambridge University Press The Gulf of Mexico Basin is one of the most prolific hydrocarbon-producing basins in the world, with an estimated endowment of 200 billion barrels of oil equivalent. This book provides a comprehensive overview of the basin, spanning the US, Mexico and Cuba. Topics covered include conventional and unconventional reservoirs, source rocks and associated tectonics, basin evolution from the Mesozoic to Cenozoic Era, and different regions of the basin from mature onshore fields to deep-water subsalt plays. Cores, well logs and seismic lines are all discussed providing local, regional and basin-scale insights. The scientific implications of seminal events in the basin's history are also covered, including sedimentary effects of the Chicxulub Impact. Containing over 200 color illustrations and 50 stratigraphic cross-sections and paleogeographic maps, this is an invaluable resource for petroleum industry professionals, as well as graduate students and researchers interested in basin analysis, sedimentology, stratigraphy, tectonics and petroleum geology.

Carbonate Sedimentology John Wiley & Sons Carbonate rocks (limestones and dolomites) constitute a major part of the geological column and contain not only 60% of the world's known hydrocarbons but also host extensive mineral deposits. This book represents the first major review of carbonate sedimentology since the mid 1970's. It is aimed at the advanced undergraduate -postgraduate level and will also be of major interest to geologists working in the oil industry. Carbonate Sedimentology is designed to take the reader from the basic aspects of limestone recognition and classification through to an appreciation of the most recent developments such as large scale facies modelling and isotope geochemistry. Novel aspects of the book include a detailed review of carbonate mineralogy, non-marine carbonate depositional environments and an in-depth look at carbonate deposition and diagenesis through geologic time. In addition, the reviews of individual depositional systems stress a process-based approach rather than one centered on simple comparative sedimentology. The unique quality of this book is that it contains integrated reviews of carbonate sedimentology and diagenesis, within one volume.

Regional Geology and Tectonics: Principles of Geologic Analysis Volume 1: Principles of Geologic Analysis Elsevier Regional Geology and Tectonics: Principles of Geologic Analysis, 2nd edition is the first in a three-volume series covering Phanerozoic regional geology and tectonics. The new edition provides updates to the first edition's detailed overview of geologic processes, and includes new sections on plate tectonics, petroleum systems, and new methods of geological analysis. This book provides both professionals and students with the basic principles necessary to grasp the conceptual approaches to hydrocarbon exploration in a wide variety of geological settings globally. Discusses in detail the principles of regional geological analysis and the main geological and geophysical tools. Captures and identifies the tectonics of the world in detail, through a series of unique geographic maps, allowing quick access to exact tectonic locations. Serves as the ideal introductory overview and complementary reference to the core concepts of regional geology and tectonics offered in volumes 2 and 3 in the series.

The Petroleum System Status of Research and Methods, 1990 Investigations about porosity in petroleum reservoir rocks are discussed by Schmoker and Gautier. Pollastro discusses the uses of clay minerals as exploration tools that help to elucidate basin, source-rock, and reservoir history. The status of fission-track analysis, which is useful for determining the thermal and depositional history of deeply buried sedimentary rocks, is outlined by Naeser. The various ways workers have attempted to determine accurate ancient and present-day subsurface temperatures are summarized with numerous references by Barker. Clayton covers three topics: (1) the role of kinetic modeling in petroleum exploration, (2) biological markers as an indicator of depositional environment of source rocks and composition of crude oils, and (3) geochemistry of sulfur in source rocks and petroleum. Anders and Hite evaluate the current status of evaporite deposits as a source for crude oil.

Sedimentology of the Brae Oilfield Area, North Sea : a Reply *Journal of Petroleum Geology* 6, (1), 1983 103-104

Canada's Continental Margins and Offshore Petroleum Exploration Calgary : Canadian Society of Petroleum Geologists ; [Waterloo, Ont.] : Geological Association of Canada

Bibliography of Reports Resulting from U. S. Geological Survey Participation in the United States Technical Assistance Program, 1940-65 Prepared under the auspices of the Agency for International Development of the U.S. Dept. of State. Geological Survey Bulletin

Strategic Petroleum Reserve, Texoma Group Salt Domes: Appendices D-S Ancient Sedimentary Environments and Their Sub-surface Diagnosis Psychology Press Examines subsurface diagnosis of environments using seismic and geophysical well logs and their application to petroleum exploration and production

Coarse-Grained Deltas (Special Publication 10 of the IAS) Wiley-Blackwell This Special Publication contains most of the contributions presented at the 1st International Workshop on Fan Deltas (1988) but also contains additional papers which make this particular volume a very well-rounded reference source for the advanced undergraduate/graduate student and the professional earth scientist concerned with sedimentology and petroleum geology. The papers describe the sedimentology and tectonic setting of this important depositional environment. Course-grained deltas, ranging from sand to gravelly, are fully covered and the main focus is on steep-face systems whose steep subaqueous slopes are dominated by high-energy processes. The volume includes case histories from around the world and throughout the book there is emphasis on the subaqueous realm of the delta face, its sedimentary processes and facies associations

New Perspectives on Deep-water Sandstones Origin, Recognition, Initiation, and Reservoir Quality Elsevier This handbook is vital for understanding the origin of deep-water sandstones, emphasizing sandy-mass transport deposits (SMTDs) and bottom-current reworked sands (BCRSs) in petroleum reservoirs. This cutting-edge perspective, a pragmatic alternative to the conventional turbidite concepts, is crucial because the turbidite paradigm is built on a dubious foundation without empirical data on sandy turbidity currents in modern oceans. In the absence of evidence for sandy turbidity currents in natural environments, elegant theoretical models and experimental observations of turbidity currents are irrelevant substitutes for explaining the origin of sandy deposits as "turbidites." In documenting modern and ancient SMTDs (sandy slides, sandy slumps, and sandy debrites) and BCRSs (deposits of

thermohaline [contour] currents, wind-driven currents, and tidal currents), the author describes and interprets core and outcrop (1:20 to 1:50 scale) from 35 case studies worldwide (which include 32 petroleum reservoirs), totaling more than 10,000 m in cumulative thickness, carried out during the past 36 years (1974-2010). The book dispels myths about the importance of sea level lowstand and provides much-needed clarity on the triggering of sediment failures by earthquakes, meteorite impacts, tsunamis, and cyclones with implications for the distribution of deep-water sandstone petroleum reservoirs. Promotes pragmatic interpretation of deep-water sands using alternative possibilities Validates the economic importance of SMTDs and BCRS in deep-water exploration and production Rich in empirical data and timely new perspectives Petroleum Abstracts Evaporites, Petroleum and Mineral Resources Elsevier This volume illustrates the expanding knowledge of evaporites as important reservoir seals, fluid aquitards, ore-hosting sediments, and economically viable sediments in their own right. Researchers, oil and gas professionals, minerals resource professionals, environmental specialists and others within geology and the other earth sciences shall utilize the information within this book in their understanding of the many recent discoveries and concepts involved in the field of evaporite sedimentology. Coarse-Grained Deltas John Wiley & Sons This Special Publication contains most of the contributions presented at the 1st International Workshop on Fan Deltas (1988) but also contains additional papers which make this particular volume a very well-rounded reference source for the advanced undergraduate/graduate student and the professional earth scientist concerned with sedimentology and petroleum geology. The papers describe the sedimentology and tectonic setting of this important depositional environment. Course-grained deltas, ranging from sand to gravelly, are fully covered and the main focus is on steep-face systems whose steep subaqueous slopes are dominated by high-energy processes. The volume includes case histories from around the world and throughout the book there is emphasis on the subaqueous realm of the delta face, its sedimentary processes and facies associations The petroleum geology of Iraq The District of Columbia, Its Rocks and Their Geologic History Petrology of Sedimentary Rocks Cambridge University Press This textbook outlines the physical, chemical, and biologic properties of the major sedimentary rocks, as revealed by petrographic microscopy, geochemical techniques, and field study. It covers the mineralogy, chemistry, textures, and sedimentary structures that characterise sedimentary rocks, and relates these features to the depositional origin of the rocks and their subsequent alteration by diagenetic processes during burial. In addition to detailed sections on siliciclastic and carbonate rocks, it also discusses evaporites, cherts, iron-rich sedimentary rocks, phosphorites, and carbonaceous sedimentary rocks such as oil shales. This second edition maintains the comprehensive treatment of sedimentary petrography and petrology provided in the first edition, and has been updated with new concepts and cutting-edge techniques like cathodoluminescence imaging of sedimentary rocks and backscattered electron microscopy. It is ideal for advanced undergraduate and graduate courses in sedimentary petrology, and is a key reference for researchers and professional petroleum geoscientists. Petroleum Formation and Occurrence Springer Science & Business Media 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. Advances in Petroleum Engineering and Petroleum Geochemistry Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018 Springer This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of petroleum engineering, reservoir engineering and petroleum geochemistry. The MENA region accounts for more than 50 percent of the world's hydrocarbon reserves. Despite being the largest oil and gas producer of the world, the MENA countries face routine problems regarding petroleum engineering, reservoir modelling and production optimization. This volume offers an overview of the latest information and ideas regarding reservoir engineering, petrophysical engineering, petroleum system modelling, non-conventional energy resources and environmental impact of oil production. Main topics include: 1. Advances in petrophysical characterization of reservoir rocks 2. Enhanced oil recovery methods 3. Advances in petroleum exploration and management 4. Evaluation of hydrocarbon source potential and petroleum system modeling 5. Non-conventional energy resources Principles of Sedimentology John Wiley & Sons The Ordos Basin Sedimentological Research for Hydrocarbons Exploration Elsevier The Ordos Basin: Sedimentological Research for Hydrocarbons Exploration provides an overview of sedimentological approaches used in the lacustrine Ordos Basin (but also applicable in other marine and lacustrine basins) to make hydrocarbon exploration more efficient. Oil exploration is becoming increasingly focused on tight sandstone reservoirs and shales. The development of these reservoirs, particularly regarding the sedimentary processes and the resulting sediments, are still poorly understood. Exploration and exploitation of such reservoirs requires new insights into the lateral and vertical facies changes, and as already indicated above, the knowledge surrounding facies and how they change in deep-water environments is still relatively unclear. Covers several geological aspects so the reader may well understand the context of the various chapters Explores and explains the important relationship between sedimentology and hydrocarbon explorations Highlights the significance of sedimentological aspects (facies, porosity, etc.) for basin analysis and the development of energy resources New Perspectives in Basin Analysis Springer Science & Business Media In the extensive field of earth sciences, with its many subdisciplines, the transfer of knowledge is primarily established via personal communication, during meetings, by reading journal articles, or by consulting books. Because more information is available than can be assimilated, it is necessary for the individual to search selectively. Books take more time from the inception of an idea until publication than any of the other means of communication mentioned. As a consequence, their function is somewhat different. Many good books are a compilation of up to date knowledge and serve as reference or instruction manuals. Some books are a collection of previously published papers

dealing with a certain topic, while others may basically provide large sets of data or examples. The *Frontiers in Sedimentary Geology* series was established both for students and practicing earth scientists who wish to either stay abreast of the most recent ideas or developments or to become familiar with an important topic in the field of sedimentary geology. The series attempts to deal with subjects that are in the forefront of both scientific and economic interest. The treatment of a subject in an individual volume should be a combination of topical, regional, and interdisciplinary approaches. Although these three terms can be defined separately, in reality they should flow into each other. A topical treatment should relate to a major category of sedimentary geology. *Principles of Sedimentology and Stratigraphy* Prentice Hall This concise treatment of the fundamental principles of sedimentology and stratigraphy highlights the important physical, chemical, biological, and stratigraphic characteristics of sedimentary rocks. It emphasizes the ways in which the study of sedimentary rocks is used to interpret depositional environments, changes in ancient sea level, and other intriguing aspects of Earth's history. *Principles of Sedimentary Basin Analysis* Springer Science & Business Media Review of the second edition "For geologists and geophysicists studying sedimentary fill of basins, this volume is a valuable addition to their shelves. The book is packed with information includes numerous lists of references, and is up-to-date. As a source volume, this book is second to none. It is clear and well organized." *GEOPHYSICS Engineering Geology for Society and Territory - Volume 6 Applied Geology for Major Engineering Projects* Springer This book is one out of 8 IAEG XII Congress volumes, and deals with the theme of applied geology, which is a critical theme for the global economy. In the international, multidisciplinary approach to major engineering projects (either to macro- or mega-scale), the application of geological investigation techniques is fundamental for properly selecting the location sites, planning the construction and maintaining the infrastructures. The contributions in this book include not only engineering constructions but also case studies related to large projects on geo-resources exploration and extraction (minerals, petroleum and groundwater), energy production (hydropower, geothermal, nuclear and others), transportation (railway and highway) and waste disposal as well as the environmental management of these and other activities. The *Engineering Geology for Society and Territory* volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: Environment, processes, issues, and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: 1. Climate Change and Engineering Geology 2. Landslide Processes 3. River Basins, Reservoir Sedimentation and Water Resources 4. Marine and Coastal Processes 5. Urban Geology, Sustainable Planning and Landscape Exploitation 6. Applied Geology for Major Engineering Projects 7. Education, Professional Ethics and Public Recognition of Engineering Geology 8. Preservation of Cultural Heritage. *Re-exploration Programs for Petroleum-Rich Sags in Rift Basins* Gulf Professional Publishing *Re-exploration Programs for Petroleum-Rich Sags in Rift Basins* covers the geological characteristics and potential of oil-rich depressions in a rifted basin. It describes up-to-date research and technology, detailing the current status of exploration. The overall aim of the book is to guide a new round of hydrocarbon exploration of petroleum-rich depressions, contributing to breakthroughs in re-exploration and a substantial increase in reserves. Chapters discuss the reservoir forming theory of oil-rich depressions, characters of hydrocarbon migration and accumulation in a weak structure slope, key elements of reservoir forming of deep buried hills and inner curtains, and more. Other topics covered include complex subtle reservoir recognition techniques, deep layer and buried hill high speed drill technology, recognition of buried hill reservoir and hydrocarbon, high efficiency enhanced oil recovery, and finally, methods of secondary exploration of oil-rich depressions and the development of a workflow to guide research and exploration. Provides up-to date knowledge and expertise on the geological characteristics and potential of oil-rich depressions in a rifted basin Based on a decade of experience, program deployment, and geological theory on continental basin exploration Gives practical guidance for exploiting green and brown fields Helps the reader understand how to increase reserves and production Ideal as a guidebook for sustainable large-scale exploration and exploitation of a continental rifted basin