Siliciclastic Sequence Stratigraphy In Well Logs Cores And Outcrops Concepts For High Resolution Correlation Of Time And Facies Methods In Exploration Series

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YARETZI VICTORIA

Paleozoic sequence stratigraphy; views from the North American Craton Elsevier
Globally growing demand of energy and mineral resources, reliable future projection of climate processes and the protection of coasts to mitigate the threats of disasters and hazards require a comprehensive understanding of the structure, ongoing processes and genesis of the marine geosphere. Beyond the “classical” research fields in marine geology in current time more general concepts have been evolved integrating marine geophysics, hydrography, marine biology, climatology and ecology. As an umbrella the term “marine geosciences” has been broadly accepted for this new complex field of research and the solutions of practical tasks in the marine realm. The “Encyclopedia of Marine Geosciences” comprises the current knowledge in marine geosciences whereby not only basic but also applied and technical sciences are covered. Through this concept a broad scale of users in the field of marine sciences and techniques is addressed from students and scholars in academia to engineers and decision makers in industry and politics.
Linking Diagenesis to Sequence Stratigraphy John Wiley & Sons
Siliciclastic sequence stratigraphy in well logs, cores, and outcropsSiliciclastic Sequence Stratigraphy in Well Logs, Cores, and OutcropsSiliciclastic Sequence Stratigraphy in Well Logs, Cores, and OutcropsSiliciclastic Sequence Stratigraphy in Well Logs, Cores, and OutcropsAmer Assn of Petroleum GeologistsSiliciclastic Sequence StratigraphySepm Society for Sedimentary
Siliciclastic Sequence Stratigraphy in Well Logs, Cores, and Outcrops Academic Press
The stratigraphic concept of a depositional sequence was introduced to the scientific literature by Peter Vail and his colleagues in the late 70s, building on the shoulders of giants like Chamberlain, Sloss and Wheeler. Since then, several papers compared and contrasted the original sequence-stratigraphic school published in the AAPG Memoir 26 in 1977 with other approaches to subdivide the geologic record, as well as, debating the model validity and impact on the community. At its core, the "model" is really a stratigraphic interpretation method, which was never explicitly documented in the literature. The objective of this book is to present the sequence stratigraphic method in its current form in an attempt to clarify its usage and application in diverse geologic data and depositional environments. This publication is the result of more than 3 decades of sequence stratigraphy research and application. The objective is to emphasize the most important aspects of Sequence Stratigraphy-a method to guide geologic interpretation of stratigraphic data (seismic profiles, well-logs, cores and outcrops) across scales (from local to regional and global) and depositional environments (from continental to deep marine). This book in an 11 x 17 format is designed to be easily used for teaching or self-learning experiences. In the second edition of the "Atlas", the book was divided in 2 volumes-Exercises and Solutions-to make it easier to use the publication as text book for sequence stratigraphy courses in universities. Also, a new exercise was added and several of the existing exercises went through major updating and editing.
Principles of Sequence Stratigraphy SEPM Soc for Sed Geology
This book broadens readers’ understanding of the stratigraphic framework and structural styles for improved hydrocarbon prospectivity in the intermediate and deeper horizons of the eastern Coastal Swamp Depo-belt of Nigeria’s Niger Delta Basin. It equips readers to interpret complex sedimentary units, such as the paralic sequence of the Niger Delta Basin, using sequence stratigraphic tools integrated with well logs, biostratigraphic, paleobathymetric and seismic data. It also offers numerous tips and insights into reservoirs, seals, source rocks and hydrocarbon-type trends/distribution across several production fields, and provides a valuable guide to support exploration and production.
Sequence Stratigraphy of Siliciclastic Systems Elsevier
Sequence Stratigraphy, presently one of the most rapidly growing areas in geology, is concerned with the documentation and prediction of how sandstones (potential hydrocarbon reservoirs) and shales (potential source rocks) are distributed in time and space within sedimentary basins. The book takes a critical look at some of the sequence stratigraphy concepts, and provides an account of how these have been applied recently in NW Europe (North Sea, mid Norway and E. Greenland, Barents Sea and Svalbard), mainly in connection with the exploration for oil and gas. There is currently no similar book available.
Regional Geology and Tectonics: Principles of Geologic Analysis SEPM Soc for Sed Geology
This unique textbook describes how past changes in sea-level can be detected through an analysis of the sedimentary record. In particular, it concentrates on the current sequence stratigraphy model. It explains this model from basics and shows how the model can be applied to both siliciclastic and carbonate successions. Designed for undergraduate and graduate courses in sequence stratigraphy, as well as for professional courses within the petroleum industry, this full-colour textbook includes numerous features that will aid tutors and students alike. These include detailed case studies demonstrating the practical applications of sequence stratigraphy and set-aside boxes providing supplementary and background information. Bulleted questions and answers are interspersed throughout the text, encouraging students to test their understanding of the material. The book is supported by a website hosting sample pages from the book, selected illustrations to download, and worked exercises.
Arctic Geology and Petroleum Potential Geological Society of America
Paralic reservoirs reflect a range of depositional environments including deltas, shoreline–shelf systems and estuaries. They provide the backbone of production in many mature basins, and contribute significantly to global conventional hydrocarbon production. However, the range of environments, together with relative sea-level and sediment supply changes, result in significant variability in their stratigraphic architecture and sedimentological heterogeneity, which translates into complex patterns of reservoir distribution and production that are challenging to predict, optimize and manage. This volume presents new research and developments in established approaches to the exploration and production of paralic reservoirs. The 13 papers in the volume are grouped into three thematic sections, which address: the sedimentological characterization of paralic reservoirs using subsurface data; lithological heterogeneity in paralic depositional systems arising from the influence of tidal currents; and paralic reservoir analogue studies of modern sediments and ancient outcrops. The volume demonstrates that heterogeneity in paralic reservoirs is increasingly well understood at all scales, but highlights gaps in our knowledge and areas of current research.
Sequence Stratigraphy of Siliciclastic Systems Springer Science & Business Media
This book contains six chapters dealing with the investigation of seismic and sequence stratigraphy and integrated stratigraphy, including the stratigraphic unconformities, in different geological settings and using several techniques and methods, including the seismostratigraphic and the sequence stratigraphic analysis, the field geological survey, the well log stratigraphic interpretation, and the lithologic and paleobotanical data. Book chapters are separated into two main sections: (i) seismic and sequence stratigraphy and (ii) integrated stratigraphy. There are three chapters in the first section, including the application of sequence and seismic stratigraphy to the fine-grained shales, to the fluvial facies and depositional environments, and to the Late Miocene geological structures offshore of Taiwan. In the second section, there are three chapters dealing with the integrated stratigraphic investigation of Jurassic deposits of the southern Siberian platform, with the stratigraphic unconformities, reviewing the related geological concepts and studying examples from Middle-Upper Paleozoic successions; and, finally, with the integrated stratigraphy of the Cenozoic deposits of the Andean foreland basin (northwestern Argentina).
John Wiley & Sons
Clear writing and analysis of the broad spectrum of processes that produce shale are coupled with well-captioned 150 illustrations, 40 tables, boxed technical details, glossary and appendices. Recounts the step-by-step evolution and stages of shal, enabling readers to master the basics and to dig yet deeper into their origin, practical implications and relationship to earth history. Background information appears in appendices (Clay Mineralogy, Isotopes, Petrology, etc.); technicial details in high-lighted boxes, and definitions of 300+ terms in the Glossary.
Sequence Stratigraphy Springer
"This memoir grew out of the 2 1/2-day symposium, 'Variations in Depositional Systems Within a Sequence Stratigraphic Framework: Applications to Exploration,' that we organized at the 1991 AAPG annual meeting in Dallas, Texas."--Preface.
Encyclopedia of Marine Geosciences BoD – Books on Demand
This revised edition of the bestselling Practice of Reservoir Engineering has been written for those in the oil industry requiring a working knowledge of how the complex subject of hydrocarbon reservoir engineering can be applied in the field in a practical manner. Containing additions and corrections to the first edition, the book is a simple statement of how to do the job and is particularly suitable for reservoir/production engineers as well as those associated with hydrocarbon recovery. This practical book approaches the basic limitations of reservoir engineering with the basic tenet of science: Occam's Razor, which applies to reservoir engineering to a greater extent than for most physical sciences - if there are two ways to account for a physical phenomenon, it is the simpler that is the more useful. Therefore, simplicity is the theme of this volume. Reservoir and production engineers, geoscientists, petrophysicists, and those involved in the management of oil and gas fields will want this edition.
Sequence Stratigraphy and Depositional Response to Eustatic, Tectonic and Climatic Forcing Sepm Society for Sedimentary
This fully revised and updated edition introduces the reader to sedimentology and stratigraphic principles, and provides tools for the interpretation of sediments and sedimentary rocks. The processes of formation, transport and deposition of sediment are considered and then applied to develop conceptual models for the full range of sedimentary environments, from deserts to deep seas and reefs to rivers. Different approaches to using stratigraphic principles to date and correlate strata are also considered, in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy. The text and figures are designed to be accessible to anyone completely new to the subject, and all of the illustrative material is provided in an accompanying CD-ROM. High-resolution versions of these images can also be downloaded from the companion website for this book at: www.wiley.com/go/nicholssedimentology.
Siliciclastic Sequence Stratigraphy Amer Assn of Petroleum Geologists
Expert petroleum geologists David Roberts and Albert Bally bring you Regional Geology and Tectonics: Principles of Geologic Analysis, volume one in a three-volume series covering Phanerozoic regional geology and tectonics. It has been written to provide you with a detailed overview of geologic rift systems, passive margins, and cratonic basins, it features the basic

principles necessary to grasping the conceptual approaches to hydrocarbon exploration in a broad range of geological settings globally. Named a 2013 Outstanding Academic Title by the American Library Association's Choice publication A "how-to" regional geology primer that provides a detailed overview of tectonics, rift systems, passive margins, and cratonic basins The principles of regional geological analysis and the main geological and geophysical tools are discussed in detail. The tectonics of the world are captured and identified 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 two and three in the series.

Seismic and Sequence Stratigraphy and Integrated Stratigraphy Geological Society of America

In recent years there has been a virtual explosion of stratigraphic studies utilizing the principles of sequence stratigraphy. Although the concept of time stratigraphy is not new, the packaging of depositional units into systems tracts and sequences is. This new approach has led to the reassessment of areas that in some cases have been the subject of intense geological scrutiny for decades. The fundamental principles upon which sequence stratigraphy is based are applicable at a broad range of temporal and physical scales. This volume arises from several sessions on sequence stratigraphy held at the Thirteenth International Sedimentological Congress, with emphasis on facies associations within a sequence stratigraphic framework.

Sequence Stratigraphy of Siliciclastic Systems Amer Assn of Petroleum Geologists

This book, dedicated to carbonate rocks, approaches sequence stratigraphy from its sedimentologic background. It attempts to communicate by combining different specialities and different lines of reasoning, and by searching for principles underlying the bewildering diversity of carbonate rocks. It provides enough general background, in introductory chapters and appendices, to be easily digestible for sedimentologists and stratigraphers as well as earth scientists at large.

Carbonate Sequence Stratigraphy John Wiley & Sons

This book, dedicated to carbonate rocks, approaches sequence stratigraphy from its sedimentologic background. It attempts to communicate by combining different specialities and different lines of reasoning, and by searching for principles underlying the bewildering diversity of carbonate rocks. It provides enough general background, in introductory chapters and appendices, to be easily digestible for sedimentologists and stratigraphers as well as earth scientists at large.

Sequence Stratigraphy and Facies Associations Geological Society of London

Sequence stratigraphy represents a new paradigm in geology. The principal hypothesis is that stratigraphie successions may be subdivided into discrete sequences bounded by widespread unconformities. There are two parts to this hypothesis. First, it suggests that the driving forces which generate sequences and their bounding unconformities also generate predietable three-dimensional stratigraphies. In re cent years stratigraphie research guided by sequence models has brought about fundamental im provements in our understanding of stratigraphie processes and the controls of basin architecture. Sequence models have provided a powerful framework for mapping and numerieal modeling, enabling the science of stratigraphy to advance with rapid strides. This research has demonstrated the importance of a wide range of processes for the generation of cyclie sequences, including eustasy, tectonics, and orbital forcing of climate change. The main objective of this book is to document the sequence record and to discuss our current state of knowledge about sequence-generating processes.

Carbonate Sedimentology and Sequence Stratigraphy Springer

Sequence stratigraphy has advanced considerably since the early applications of the concepts on seismic data. It attempts to discern the migration of facies re sulting from changes in a combination of factors such as, sea level, tectonics, climate and sediment flux, and integrates it with a meaningful chronostratigraphy. The stratigraphic record is envisioned as a framework of repetitive packages of genetically-related strata, formed in response to the shifting base level, in which the locus of deposition of various sediment types may be anticipated. This attribute is rapidly promoting sequence stratigraphy as an indispensable tool for prediction of facies in exploration and production geology. In hydrocarbon exploration the application of sequence stratigraphy has ranged from anticipating reservoir- and source-rock distribution to predicting carbonate diagenesis, porosity and permeability. The capability to anticipate vertical and lateral distribution of facies and reservoir sands in the basinal, shoreface, incised valley-fill and regressive settings alone has been a great asset for exploration. In frontier areas, where data are often limited to seismic lines, sequence-stratigraphic methodology has helped determine the timing and of types of unconformities and anticipate transgressive- and regressive-prone intervals. In production it is aiding in field development by providing improved source and seal predictions for secondary oil recovery. A recognition of stratigraphic causes of poor recovery through improved understanding of internal stratal architecture can lead to new well recompletions and enhanced exploitation in existing fields. The sequence-stratigraphic discipline is in a state of rapid expansion.

Carbonate Sedimentology and Sequence Stratigraphy SEPM Soc for Sed Geology

Sequence stratigraphy is a powerful tool for the prediction ofdepositional porosity and permeability, but does not account forthe impact of diagenesis on these reservoir parameters. Therefore,integrating diagenesis and sequence stratigraphy can provide abetter way of predicting reservoir quality. This special publication consists of 19 papers (reviews and casestudies) exploring different aspects of the integration ofdiagenesis and sequence stratigraphy in carbonate, siliciclastic,and mixed carbonate-siliciclastic successions from variousgeological settings. This book will be of interest tosedimentary petrologists aiming to understand the distribution ofdiagenesis in siliciclastic and carbonate successions, to sequencestratigraphers who can use diagenetic features to recognize andverify interpreted key stratigraphic surfaces, and to petroleumgeologists who wish to develop more realistic conceptualmodels for the spatial and temporal distribution of reservoirquality. This book is part of the ahref="http://www.sedimentologists.org/"International Associationof Sedimentologists/a (IAS) Special Publications. The Special Publications from the IAS are a set of thematicvolumes edited by specialists on subjects of central interest tosedimentologists. Papers are reviewed and printed to the same highstandards as those published in the journal ahref="http://www.iasnet.org/publications/sed.php"Sedimentology/aand several of these volumes have become standard works ofreference.

Cratonic Sequence Stratigraphy SEPM Soc for Sed Geology

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