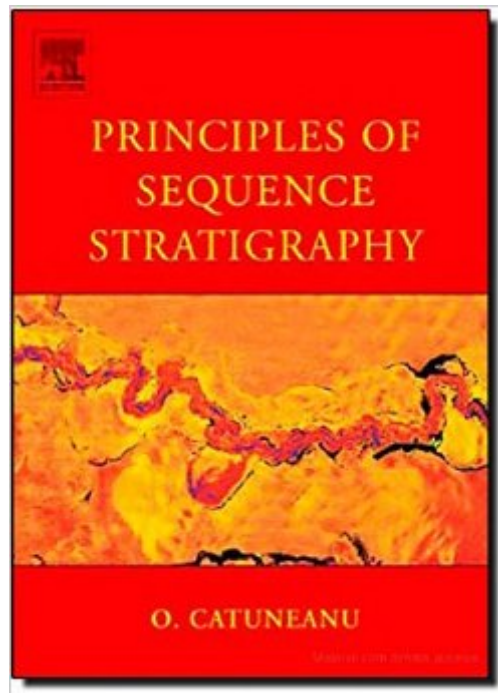


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Principles Of Sequence Stratigraphy (Developments In Sedimentology)



Synopsis

Principles of Sequence Stratigraphy provides an in-depth coverage and impartial assessment of all current ideas and models in the field of sequence stratigraphy. Even though widely popular among all groups interested in the analysis of sedimentary basin fills, both in academia and in the industry, sequence stratigraphy is yet a difficult undertaking due to an overwhelming jargon and the persistence of conflicting approaches as to how the sequence stratigraphic method should be applied to the rock record. This textbook examines the relationship between such conflicting approaches from the perspective of a unifying platform, demonstrating that sufficient common ground exists to eliminate terminology barriers and to facilitate communication between all practitioners of sequence stratigraphy. This work is not only a review of past and current literature, but also includes key original viewpoints and is illustrated with new graphic material and numerous field examples of outcrop, core, well log and 3D seismic data in full colour. The book is addressed to anyone interested in understanding and applying the method of sequence stratigraphic analysis, from students to geologists, geophysicists and reservoir engineers. Sequence stratigraphy remains the most recent paradigm in the broad field of sedimentary geology, with tremendous potential to deciphering the record of global change and to improving the success of economic exploration. * Offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. * Contains numerous high-quality and full-color diagrams, photographs and illustrations, virtually on every aid in comprehension of the subject* Features a dedicated chapter on discussions and conclusions incorporating all previous chapters with references, basic principles and strategies* Provides an extensive list of references for further reading, as well as an author and subject index for quick information access

Book Information

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Customer Reviews

I was referred to this book by a client and anticipated its arrival with great interest. At the same time, another client contracted me to develop an industry-based short course on Sequence Stratigraphy. Consequently, I was hopeful that this book might provide good illustrative material and new insights. When I received the book, I was, in fact disappointed. The book is well-written, it has lots of illustrations, and the science is sound. However, it is written more from the perspective of an academic researcher and the applications to the petroleum, coal, uranium or environmental industries are minimal. The amount of material on relevant seismic stratigraphy is less than minimal. Moreover, about 1/3 of the book is a sedimentology text and better information is available elsewhere. The focus of the book is outcrop sequence stratigraphy. Subsurface sequence and seismic stratigraphy is downplayed (This is where these principles are applied in the working world of industry). The use of far too many acronyms is annoying. The endless stream of nomenclature makes application of the principles difficult. For academic and outcrop sequence stratigraphers, this is a good book. For those of us working in industry, it is limited.

At times Catuneanu is clear, but for the most part he writes in a verbose and convoluted manner, as if he would be loathe to write a short sentence. His style makes a difficult topic more difficult than it needs to be. He presumes on the reader too much. As an introductory text, this one is to be avoided – it is simply too labyrinthine. (I have a B.S. in Geology, so I am not reviewing from an outsider's perspective). This would possibly make a better advanced textbook for academics, i.e. Ph.D. candidates who have had introductory courses in Sequence Stratigraphy.

Catuneanu is a modern reference in Sequence Stratigraphy, as Hsü, Posamentier and others were during the 80's, 90's and early 2000's. Stratigraphy is somehow a hard topic, many concepts are too complex such as accommodation rate and episodic process. The book helps to clarify these and other points very important to stratigraphic analysis.

Bought this product new and it arrived on time. I am very satisfied with the book, however when it arrived there was a bit of damage to the bottom corner. Other than that the order was perfect.

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