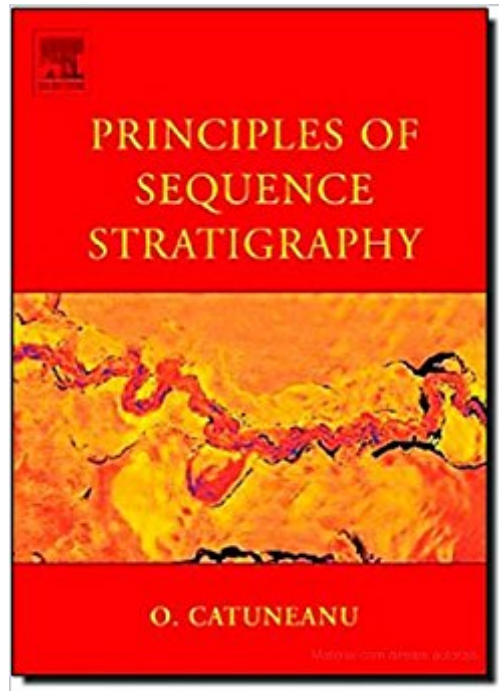




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# Principles Of Sequence Stratigraphy (Developments In Sedimentology)



## 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. This textbook thoroughly develops fundamental concepts of sequence stratigraphy that links base-level changes to sedimentary deposits. It examines differing approaches to how the sequence stratigraphic method can be applied to the rock record, and reviews practical applications such as how petroleum geologists can target where to drill for oil. The book's balanced approach helps students acquire a common terminology and conceptual understanding that will be helpful later in their academic and professional careers, whether they pursue jobs as geologists, geophysicists, or reservoir engineers. This textbook 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. It goes beyond the standard treatment of sequence stratigraphy by focusing on a more user-friendly and flexible method of analysis of the sedimentary rock record than other current methods. The text is richly illustrated with dozens of full color photographs and original illustrations of outcrop, core, well log, and 3D seismic data. There is a dedicated chapter on discussions and conclusions, along with an instructor site containing images from the book. Principles of Sequence Stratigraphy will appeal to researchers and professionals, as well as upper graduate and graduate students in stratigraphy, sedimentology, petroleum geology and engineering, economic geology, coal geology, seismic exploration, precambrian geology, and mining geology and engineering. \*

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

"This volume has the best explanation and exploration of sequence stratigraphy yet published. It stands above earlier such books not only because of its outstanding graphics and clear prose, but also because it approaches the topic philosophically, emphasizing the cognitive models as much as the geological....All libraries with geological science programs should have this book, as should all sedimentologists and stratigraphers. Summing Up: Essential. Upper-division undergraduates through professionals."-CHOICE"Outstanding conceptual diagrams and illustrations including color photos of geologic outcrops, well cuttings, cores, well logs, and 3D seismic data are the backbone of this book. I firmly believe that this will be a bestseller in the Earth sciences. I really enjoyed reading this extraordinarily comprehensive text."--THE LEADING EDGE, The Society of Exploration Geophysicists, May 2007"Principles of Sequence Stratigraphy" is an up-to-date and comprehensive textbook covering both theory and practice of sequence stratigraphy."- Journal of Sedimentary Research, August 2006"Octavian Catuneanu has written a balanced, well illustrated and up-to-date overview of the various approaches to sequence stratigraphy."- Journal of Sedimentary Research, August 2006

Currently one of the most active areas of researching the Earth's geological record of local to global changes in both academic and industrial environments

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.

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.

Figures are excellent. Discussion of topics is well organized. Much like his journal publications this text is a great resource in the instruction of Sequence Stratigraphy.

good book for stratigrapher and for anyone who studies petroleum basin 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.

Received this book promptly and received it in the condition as mentioned. Thanks for your business.

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.

Writes in a way that is easily understood, something not easily done with a dense and complex

concept like sequence stratigraphy. He does a good job of not dismissing other camps (like Exxon) who employ different methodologies, but rather consolidates the different views into one cohesive discussion.

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