

# Siliciclastic Sequence Stratigraphy in Well Logs, Cores, and Outcrops: Concepts for High-Resolution Correlation of Time and Facies (Methods in Exploration Series)

By R. M. Mitchum, K. M. Campion, V. D. Rahmanian

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A basic introduction to the principles of siliciclastic sequence stratigraphy. Included are definitions, concepts, and examples designed to illustrate the application of well logs, cores, and outcrops to the fundamental goal of stratigraphy: correlation.

Although published in 1990, the book provides a basic overview of concepts and terminology still being used today in sequence stratigraphy applications.

The most important application of sequence stratigraphy is to physically correlate rocks. Correlation means demonstrating time equivalency. Various correlation methods exist today, most based on the use of biostratigraphy or radiometric dating. Sequence stratigraphy provides relative age correlation by using surfaces in the rock record as chronostratigraphically significant boundaries.

When done correctly, sequence stratigraphic interpretations commonly provide new understanding of the evolution of stratal successions and new knowledge of how basins fill.

Siliciclastic Sequence Stratigraphy in Well Logs, Cores, and Outcrops: Concepts for High-Resolution Correlation of Time and Facies is a must volume for petroleum geologists, stratigraphers and sedimentologists.

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