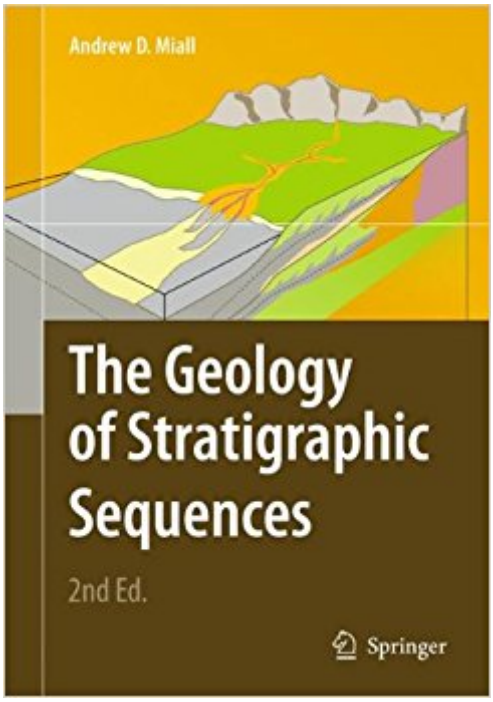
The Geology Of Stratigraphic Sequences



Synopsis

It has been more than a decade since the appearance of the First Edition of this book. Much progress has been made, but some controversies remain. The original ideas of Sloss and of Vail (building on the early work of Blackwelder, Grabau, Ulrich, Levorsen and others) that the stratigraphic record could be subdivided into sequences, and that these sequences store essential information about basin-forming and subsidence processes, remains as powerful an idea as when it was first formulated. The definition and mapping of sequences has become a standard part of the basin analysis process. The main purpose of this book remains the same as it was for the first edition, that is, to situate sequences within the broader context of geological processes, and to answer the question: why do sequences form? Geoscientists might thereby be better equipped to extract the maximum information from the record of sequences in a given basin or region. Tectonic, climatic and other mechanisms are the generating mechanisms for sequences ranging over a wide range of times scales, from hundreds of millions of years to the high-frequency sequences formed by cyclic processes lasting a few tens of thousands of years

Book Information

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Customer Reviews

From the reviews of the second edition:Ã¢â ¬Å“In this new edition Ã¢â ¬Â¦ Miall (Univ. of Toronto) examines in detail the results of Vail and his followers, showing where he agrees with those results and where he feels that the Vail/Exxon model has gone too far in extrapolating from these results. Ã¢â ¬Â¦ A must-read book for those actively involved in stratigraphy. Summing Up: Highly

recommended. Graduate students and above.Ã¢â ¬Â• (C. W. Dimmick, Choice, Vol. 48 (5), January, 2011)Ã¢â ¬Å“The considerably expanded and updated second edition of this book is subdivided into four parts Ã¢â ¬Â¦. These four parts contain 15 chapters altogether. Ã¢â ¬Â¦the book is a most welcome update and overview of the rapidly developing field of sequence stratigraphy. All students and professional geologists working in basin analysis will certainly like to have it available in their private libraries. Considering the relatively low price, I can therefore wholeheartedly recommend it.Ã¢â ¬Â• (T. J. A. Reijers, The Sedimentary Record, January, 2011)

Ã¢â ¬Å“Ein hervorragendes Werk zur EinfÃƒÂ hrung in und zur Ãƒâ€“bersicht zu diesem hochaktuellen Lehrgebiet. Arbeitsmethodiken sind dezidiert erlÃƒÂ¤utert, die wichtigsten Typen von ZyklizitÃƒÂ¤ten ausfÃƒÂ hrlich dargestellt und Bildungsparameter diskutiert. FÃƒÂ r Stratigraphen und Sedimentologen sowie weitere interessierte Geowissenschaftler ein explizit empfehlenswertes Buch!Ã¢â ¬Â• Besonders hervozuheben: Ã¢â ¬Å“Hervorhebenswert sind die vielen VerknÃƒÂ fungen [sic] von Erscheinungen und deren Ursachen sowie die disziplinÃƒÂ¤r weit ÃƒÂ bergreifenden methodischen AnsÃƒÂ¤tze.Ã¢â ¬Â• (Prof. Dr. Olaf Elicki, Geological Institute, Technische UniversitÃƒÂ¤t Bergakademie Freiberg)

Great resource

one of the best treatments of the modern approache to Sequence Stratigraphy

Miall provides a distinctive, encompassing, geologic review of the most widely stratigraphic technique used in basin analysis over the last 25 years. A familiarity with the subject and/or a strong background in geology is recommended prior to purchasing this book (for sequence geology; check out Coe, Catuneanu, or Haq). Miall provides a wealth of information and a writing style that is engaging and lucid. A very comprehensive outline of the geology that defines stratigraphic sequences and the tools used to make valued, interpretive, and analytic sense of the geologic processes which produced the sequences.

This text, combined with the work by Vail et al. (AAPG, Memoir 26) and Haq et al. (Science, v235, pp 1156-1167) form the foundation for sequence stratigraphic analysis. Miall is a skeptic of most far-reaching sequence stratigraphic interpretations, but this book is modern (1997) and provides a balance treatment of the topic. While certianly not the only source for the study of sequence

stratigraphy, it is a recommended addition to any library on the subject.

The Geology of Stratigraphic Sequences Geology for beginners: Easy course for understanding geology (Geology explained) Carbonate Reservoirs: Porosity and Diagenesis in a Sequence Stratigraphic Framework (Developments in Sedimentology) Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers, Volume 61, Second Edition (Developments in Petroleum Science) Stratigraphic Paleobiology: Understanding the Distribution of Fossil Taxa in Time and Space Carbonate Reservoirs, Volume 67, Second Edition: Porosity and Diagenesis in a Sequence Stratigraphic Framework (Developments in Sedimentology) ASTA String Curriculum: Standards, Goals, and Learning Sequences for Essential Skills and Knowledge in K-12 String Programs Secret Coders: Secrets & Sequences The Animated Film Encyclopedia: A Complete Guide to American Shorts, Features, and Sequences, 1900-1979 Angel Numbers 101: The Meaning of 111, 123, 444, and Other Number Sequences Introduction to Computational Biology: Maps, Sequences and Genomes (Chapman & Hall/CRC Interdisciplinary Statistics) A Handbook of Integer Sequences Sequences, Combinations, Limits (Dover Books on Mathematics) Infinite Sequences and Series (Dover Books on Mathematics) Quaternions and Rotation Sequences Quaternions and Rotation Sequences: A Primer with Applications to Orbits, Aerospace and Virtual Reality NMR: THE TOOLKIT: How Pulse Sequences Work (Oxford Chemistry Primers) Sequences The Time Between: The Sequences of Minor White Roadside Geology of Colorado (Roadside Geology Series)