



Principles of Tidal Sedimentology

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This book presents a comprehensive, contemporary review of tidal environments and deposits. Individual chapters, each written by world-class experts, cover the full spectrum of coastal, shallow-marine and even deep-marine settings where tidal action influences or controls sediment movement and deposition. Both siliciclastic and carbonate deposits are covered. Various chapters examine the dynamics of sediment transport by tides, and the morphodynamics of tidal systems. Several chapters explore the occurrence of tidal deposits in the stratigraphic context of entire sedimentary basins.

This book is essential reading for both coastal geologists and managers, and geologists interested in extracting hydrocarbons from complex tidal successions.

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Principles of Tidal Sedimentology From Springer Bibliography

- Sales Rank: #4393022 in Books
- Published on: 2011-10-20
- Original language: English
- Number of items: 1
- Dimensions: 10.44" h x 1.61" w x 7.66" l, 2.90 pounds
- Binding: Hardcover
- 621 pages

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Editorial Review

Review

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“This substantial collection of papers owes its origins to the series of International Conferences on Tidal Sedimentology that were initiated back in 1973 There is certainly a consistency in approach and also presentation that is lacking in so many edited volumes. The book is exceptionally well illustrated Principles of Tidal Sedimentology provides a very welcome synthesis of recent advances in this field and is definitely a volume that anyone seriously interested in tidal sedimentology will want to have.” (Jon French, Geological Magazine, April, 2012)

“The book under review contains outstanding chapters on tidal rhythmites, ichnofacies, facies architecture of tidal inlets, the sedimentology of muddy alongshore tidal flats of open coasts, processes, a state-of-the-art review of bedforms and sedimentary products of some examples of shallow-marine tide-dominated environments. The book may therefore be useful for those who are interested in one or more of these aspects” (J. H. (Janrik) van den Berg, The Sedimentary Record, June, 2012)

From the Back Cover

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About the Author

Richard A. Davis, Jr., is Distinguished Professor Emeritus, with 40 years of teaching experience, last 32 years at University of South Florida, USA. He has been visiting professor at many universities. He authored and edited 14 books (2 of them for Springer) and numerous publications. He is a member of Geological Society of America, the Society for Sedimentary Geology (SEPM), and American Shore and Beach Preservation Association. His major specialization is coastal geology, especially barrier islands systems, inlets, tidal environments and beaches.

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