



# Applied Sedimentology

By Richard C. Selley

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## Applied Sedimentology By Richard C. Selley

There are three types of rock—igneous, metamorphic and sedimentary. Sedimentary rocks form from the weathering, erosion, transportation and deposition of older rocks. **Applied Sedimentology** describes the formation, transportation and deposition of sediment, and the post-depositional processes that change soft sediment into sedimentary rock. Sedimentary rocks include sandstones, limestones and mudstones. All the world's coal, most of its water and fossil fuels, and many mineral deposits occur in sedimentary rocks. **Applied Sedimentology** shows how the study of sediments aids the exploration for and exploitation of natural resources, including water, ores and hydrocarbons.

- \* Completely revised edition; Like its precursor, it describes sediments from sand grains to sedimentary basins; Features up-to date account and critique of sequence and cyclostratigraphy
- \* Extensively illustrated with photos and remotely sensed sea bed images describing sedimentary processes, products and depositional systems; Color plates illustrate sediment textures, lithologies, pore types, diagenetic textures, and carbonate and clastic sequence stratigraphic models
- \* Emphasises the applications of sedimentology to the exploration for and exploitation of natural resources, including water, ores and hydrocarbons
- \* Extensive references and up-to-date bibliography for further study

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### Editorial Review

#### Review

"The text is generally well written and the illustrations are mostly clear and informative....Selley has succeeded in producing an attractive volume which will remain very useful for more advanced undergraduates."

--GEOLOGY

#### From the Back Cover

This is a completely revised edition of *Applied Sedimentology*, first published in 1988. Like its precursor, it describes sediments from sand grains to sedimentary basins. **Part 1, Rock to Sediment**, introduces the concept of the sedimentary cycle, describes weathering and soil formation, and details the fundamental physical properties of a sediment: texture, porosity, and permeability. **Part 2, Sediment Sedimented**, begins by describing the transportation and deposition of sediment and the resultant sedimentary structures. It ends with a description of the various depositional systems, sequence stratigraphy, and cyclicity. **Part 3, Sediment to Rock**, opens by describing how pressure, temperature, and fluid processes control petroleum and ore formation. It continues with accounts of the evolution of porosity and permeability in carbonates and sandstones. The last chapter describes the different types of sedimentary basins, their origins, depositional fill, and the evolution of their fluids. The book emphasizes the applications of sedimentology to the exploration for and exploitation of natural resources, including water, ores, and hydrocarbons. *Applied Sedimentology* is written principally for senior undergraduate and postgraduate students of earth science and engineering. It may also, however, prove useful to more mature readers who explore and exploit the sedimentary rocks for fossil fuels and mineral deposits.

Richard Selley has spent most of his career at the Royal School of Mines, Imperial College, London University, where he is Professor of Applied Sedimentology. Between 1969-75, however, he worked for oil companies in Libya, Greenland and the North Sea. The author has been awarded the Murchison Fund of the Geological Society. He has been a Distinguished Lecturer of the Petroleum Exploration Society of Australia and has been awarded a Certificate of Merit and a Survivor Certificate by the American Association of Petroleum Geologists.

#### About the Author

Richard Selley is Professor of Applied Sedimentology in the Department of Geology, Imperial College, University of London. He has been involved in petroleum exploration across the globe and has published 5 text books and many papers on sedimentology and its application to petroleum exploration and production. Richard Selley has been awarded the Murchison Fund of the Geological Society, has been a Distinguished Lecturer of the Petroleum Exploration Society of Australia, and was awarded a Certificate of Merit by the American Association of Petroleum Geologists.

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