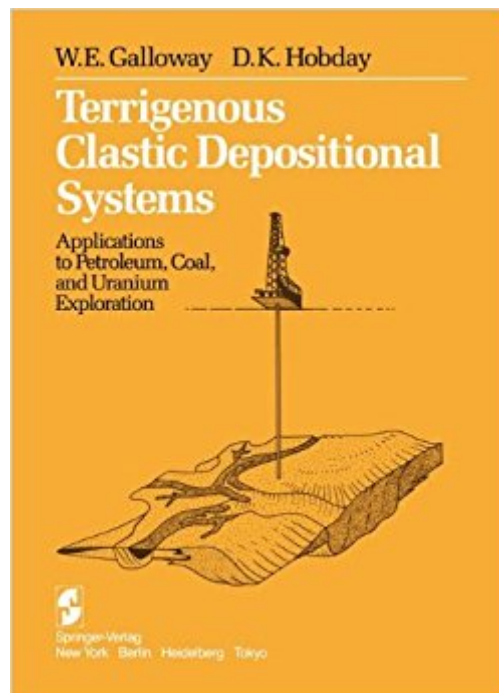




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Terrigenous Clastic Depositional Systems: Applications To Petroleum, Coal, And Uranium Exploration



Synopsis

The reserves, or extractable fraction, of the fuel-mineral endowment are sufficient to supply the bulk of the world's energy requirements for the immediately foreseeable future-well into the next century according to even the most pessimistic predictions. But increasingly sophisticated exploration concepts and technology must be employed to maintain and, if possible, add to the reserve base. Most of the world's fuel-mineral resources are in sedimentary rocks. Any procedure or concept that helps describe, understand, and predict the external geometry and internal attributes of major sedimentary units can therefore contribute to discovery and recovery of coal, uranium, and petroleum. While conceding the desirability of renewable and nonpolluting energy supply from gravitational, wind, or solar sources, the widespread deployment of these systems lies far in the future-thus the continued commercial emphasis on conventional nonrenewable fuel mineral resources, even though their relative significance will fluctuate with time. For example, a decade ago the prognostications for uranium were uniformly optimistic. But in the early 1980s the uranium picture is quite sombre, although unlikely to remain permanently depressed. Whether uranium soars to the heights of early expectations remains to be seen. Problems of waste disposal and public acceptance persist. Fusion reactors may ultimately eliminate the need for uranium in power generation, but for the next few decades there will be continued demand for uranium to fuel existing power plants and those that come on stream. This book is, to some extent, a hybrid.

Book Information

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"I highly recommend this fine book - the authors and publishers are to be congratulated. Adopt it, buy it!" Sedimentary Geology"...an excellent and very welcome addition that should be on the bookshelf of anyone seriously engaged in energy exploration." - The American Association of Petroleum Geologists Bulletin

This second edition of Terrigenous Clastic Depositional Systems bridges the gap between process-related outcrop studies of sedimentary rocks and the three-dimensional subsurface world of the mineral fuel geologist and hydrogeologist. It remains unique in its focus on the application of subsurface facies analysis to problems of petroleum, coal, uranium, and ground water resource discovery, delineation, and production. The text and figures have been rewritten and updated. New chapters summarize applications of sequence stratigraphy to facies analysis and the use of detailed facies interpretation in reservoir and aquifer characterization. --This text refers to the Paperback edition.

The lack of organization and lack of a glossary result in a poor textbook. Do not use this as your main source of info when trying to learn about depositional systems- much more understandable books exist.

This is a book packed full of information. Each chapter could be a single book, and that would help, expanding more on the ideas contained within.

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