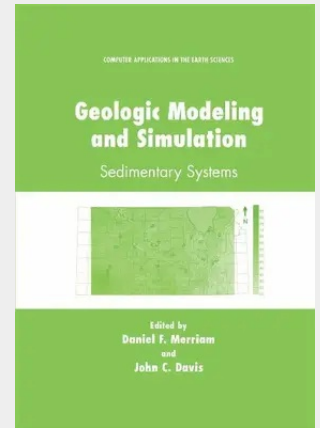


Geologic Modeling and Simulation

Sedimentary Systems

Modeling and simulation were introduced to the earth sciences about four decades ago. Modeling has proven its worth and now it is an accepted procedure for analyzing and solving geological problems. The papers in this collection are focused on modeling sediment deposition and sedimentary sequences and have a decidedly practical flavor. Some of the leading simulation packages, such as CORRELATOR, SEDFLUX, SEDpak, SEDSIM, STRATA, and STRATSIM are applied to problems in hydrocarbon exploration, oil production, groundwater development, coal-bed appraisal, geothermics, and environmental diagnosis. All of these subjects fall under the broad heading of sedimentary basin analysis. The fifteen papers in this volume are written by internationally recognized experts from academia and industry. The contributions represent the status of geologic modeling and simulation at the start of the 21st century, and will give the reader an insight into current research problems and their possible solutions.

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