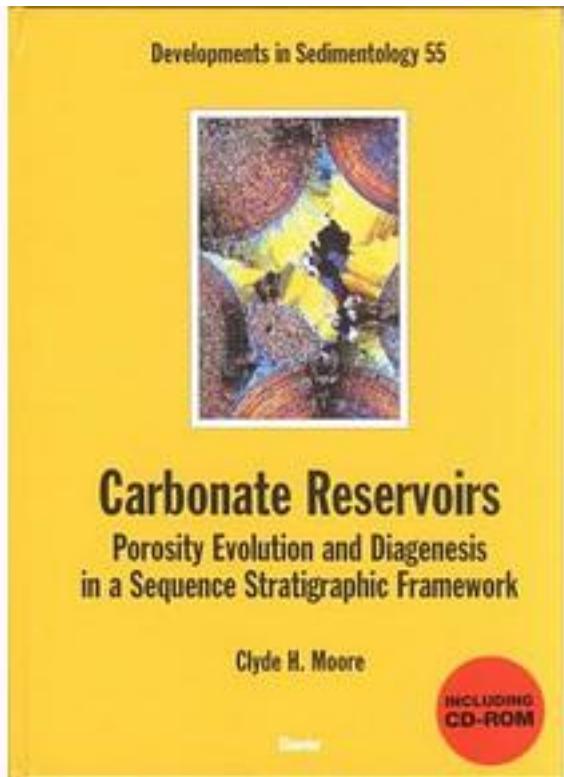


Carbonate Reservoirs



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This comprehensive text and accompanying CD-ROM will provide the reader with an integrated overview of diagenesis and porosity evolution in carbonate petroleum reservoirs and ancient carbonate rock sequences. The initial chapters of this volume provide an overview of the carbonate sedimentologic system and the application of sequence stratigraphic concepts to carbonate rock sequences. The nature of carbonate porosity and its control by diagenesis is explored. Porosity classification schemes are detailed, compared, and their utility examined. The nature and

characteristics of diagenetic environments and tools for their recognition in the ancient record are specified. The middle chapters of the book consist of a thorough examination of the major, surficial diagenetic environments, such as normal marine, evaporative marine and meteoric environments, emphasising porosity modifying processes illustrated by numerous case histories. There follows a summary of early diagenesis and porosity evolution couched in a sequence stratigraphic, climatic and tectonic framework. Predictive porosity/diagenesis models are developed. The fate of early-formed porosity is explored in the burial diagenetic regimen in a tectonic framework. Factors controlling porosity destruction, porosity preservation and porosity enhancement are outlined and illustrated by case histories. The final chapter consists of three well-constrained economically important case histories that serve to summarise the concepts and exploration/production strategies developed earlier. The epilogue gives the reader a sense of the legacy of important earlier workers, the present state of the art and the author's sense of where the science of carbonate reservoirs needs to go in the future. The accompanying CD-ROM provides color versions of all diagrams/illustrations found in the text. This book should be useful to any geologist interested in carbonate sediments and rocks, and the porosity/diagenesis models will be particularly useful to exploration/production geologists. The book will be a good text for advanced carbonate courses at graduate level, and an appropriate reference book for graduate students working with, or interested in, carbonate rock sequences and sediments.

作者介绍:

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