



# Understanding Petroleum Reservoirs: Towards an Integrated Reservoir Engineering and Geochemical Approach

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Reservoir geochemistry can throw light on the origin of petroleum reservoir fluid heterogeneities at a variety of spatial and temporal scales. This information can be used to understand the formation and performance of petroleum accumulations, and is a valuable tool for exploration, development and production strategies. Key topics covered in this book include: analytical methods for the determination of fluid compositional heterogeneity; physical, chemical and numerical models for interpreting compositional differences in terms of basin history and reservoir connectivity; and application case studies. There is now a significant potential for a new wave of development focused on component concentrations and a more evolutionary chemical model of reservoir petroleum. When coupled with integrative utilitarian reservoir charge/mixing/production numerical models, reservoir geochemistry can provide one of the most significant advances in exploration and production during the 21st century.

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