



# Unconventional Petroleum Geology

By Caineng Zou

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*Unconventional Petroleum Geology* is the first book of its kind to collectively identify, catalog, and assess the exploration and recovery potential of the Earth's unconventional hydrocarbons. Advances in hydrocarbon technology and petroleum development systems have recently made the exploration of unconventional hydrocarbons?such as shale gas, tight sandstone oil and gas, heavy oil, tar sand, and coalbed methane?the hottest trend in the petroleum industry.

Detailed case studies act as real-world application templates, making the book's concepts immediately practical and useful by exploration geologists. The logical and intuitive three-part approach of systematically identifying an unconventional hydrocarbon, cataloguing its accumulation features, and assessing its exploration and recovery potential can be immediately implemented in the field?anywhere in the world.

- Provides a detailed assessment of the exploration and recovery potential of the full range of unconventional hydrocarbons
- More than 300 illustrations?many in full color?capture the detailed intricacies and associated technological advances in unconventional hydrocarbon exploration
- More than 20 case studies and examples from around the world conclude each chapter and aid in the application of key exploration and recovery techniques

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## Unconventional Petroleum Geology By Caineng Zou Bibliography

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## Editorial Review

### Review

*"The body of the book devotes each chapter to a specific type of petroleum deposit and the extraction techniques: tight-sandstone oil and gas, coalbed methane, shale gas, carbonate-fracture-cavity reservoir, volcanic deposits, deposits in metamorphic rocks, heavy oil and bitumen, and natural gas hydrate. The book includes about twenty real-life case studies."--Reference and Research Book News, August 2013*

### From the Back Cover

The exploration of unconventional hydrocarbons such as shale gas, tight sandstone oil and gas, heavy oil, tar sand, and coalbed methane is the hottest current trend in the petroleum industry. *Unconventional Petroleum Geology* is the first book to provide a detailed assessment of the exploration and recovery potential of the full range of unconventional hydrocarbons. It provides a systematic introduction to the geological theory and relative technologies of unconventional petroleum resources in China, including the latest advances and resource assessment results.

- Provides a thoroughly detailed yet accessible reference to help you understand the newest methods for unconventional hydrocarbon exploration
- Offers a logical and intuitive three-part approach of systematically identifying an unconventional hydrocarbon, cataloguing its accumulation features, and assessing its exploration and recovery potential
- Includes more than 300 illustrations?many in full color?that will help you retain key concepts
- Presents over 20 case studies from around the world as real-world application templates, helping you make the book's concepts immediately applicable in the field

### About the Author

President of the research institute of petroleum exploration and development(RIPED)

Professor, the research institute of petroleum exploration and development,CNPC

An expert petroleum geology, Caineng Zou received a doctorate on Mineral Resource Prospecting and Exploration and is now vice-president and chief geologist of the Research Institute of Petroleum Exploration and Development (RIPED) of PetroChina; vice-chairman of China Mineralogy, Petrology and Geochemistry Society and Beijing Petroleum society; deputy-director of the natural gas committee of China Petroleum Society (CPS); group leader of the reservoir division in the petroleum geology committee of CPS and unconventional gas division in the natural gas committee of CPS; a member of the editorial board for Petroleum Exploration and Development, Acta Petrolei Sinica, and Natural Gas Geoscience; a part-time professor in Beijing University. He is also the leader of the national project "Accumulation Law, Key Technologies and Targets' Evaluation of Litho-stratigraphic Petroleum" and has been approved to receive the State Council special allowance in China. Dr. Zou has been awarded a National Top Prize for Progress in Science and Technology and ten Provincial or Ministerial Prizes in China. He has published over 90 papers and 5 monographs.

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