



Advanced Production Decline Analysis and Application

By Hedong Sun

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In recent years, production decline-curve analysis has become the most widely used tool in the industry for oil and gas reservoir production analysis. However, most curve analysis is done by computer today, promoting a "black-box" approach to engineering and leaving engineers with little background in the fundamentals of decline analysis. *Advanced Production Decline Analysis and Application* starts from the basic concept of advanced production decline analysis, and thoroughly discusses several decline methods, such as Arps, Fetkovich, Blasingame, Agarwal-Gardner, NPI, transient, long linear flow, and FMB. A practical systematic introduction to each method helps the reservoir engineer understand the physical and mathematical models, solve the type curves and match up analysis, analyze the processes and examples, and reconstruct all the examples by hand, giving way to master the fundamentals behind the software. An appendix explains the nomenclature and major equations, and as an added bonus, online computer programs are available for download.

- Understand the most comprehensive and current list of decline methods, including Arps, Fetkovich, Blasingame, and Agarwal-Gardner
- Gain expert knowledge with principles, processes, real-world cases and field examples
- Includes online downloadable computer programs on Blasingame decline type curves and normalized pseudo-pressure of gas wells

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Editorial Review

From the Back Cover

In recent years, production decline-curve analysis has become the most widely used tool in the industry for oil and gas reservoir production analysis. However, most curve analysis is done by computers, promoting a black-box approach to engineering and leaving engineers with little understanding of the fundamentals of decline analysis. *Advanced Production Decline Analysis and Application* starts from the basic concept of advanced production decline analysis, and discusses several decline methods thoroughly. A practical systematic introduction is provided for each method to help the reservoir engineer:

- Understand the physical and mathematical models
- Solve the type curves and match analysis
- Analyze the processes and examples
- Reconstruct all the examples by hand, enabling mastery of the fundamentals behind the software

An appendix explains the nomenclature and major equations from the main text and as an added bonus, online computer programs are available for download featuring decline typecurves and normalized pseudo-pressure of gas wells. This valuable reference work helps readers to better understand programs, instructions, and procedures delivering stronger reservoir interpretations.

Key Features:

- Understand the most comprehensive and current list of decline methods, including Arps, Fetkovich, Blasingame, Agarwal-Gardner, NPI, transient, long linear flow, and FMB.
- Gain expert knowledge with principles, processes, real-world cases and field examples.
- Includes online downloadable computer programs on decline type curves and normalized pseudo-pressure of gas wells.

About the Author

Dr. Hedong Sun received his PhD degree from Xi'an Jiaotong University in 2004. Since 2004, he has been a Research Engineer in Research Institute of Petroleum Exploration and Development (RIPEDE)-Langfang Branch, which is the R&D center of China National Petroleum Corporation (CNPC).

Hedong has over 18 years of reservoir engineering experience with a focus on well test analysis and production analysis. He published over 40 papers in peer-reviewed journals, and two Chinese books.

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