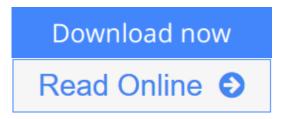


Microseismic Imaging of Hydraulic Fracturing: Improved Engineering of Unconventional Shale Reservoirs (Distinguished Instructor Series No. 17)

By Shawn Maxwell



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Microseismic Imaging of Hydraulic Fracturing: Improved Engineering of Unconventional Shale Reservoirs (SEG Distinguished Instructor Series No. 17) covers the use of microseismic data to enhance engineering design of hydraulic fracturing and well completion. The book, which accompanies the 2014 SEG Distinguished Instructor Short Course, describes the design, acquisition, processing, and interpretation of an effective microseismic project. The text includes a tutorial of the basics of hydraulic fracturing, including the geologic and geomechanical factors that control fracture growth. In addition to practical issues associated with collecting and interpreting microseismic data, potential pitfalls and quality-control steps are discussed. Actual case studies are used to demonstrate engineering benefits and improved production through the use of microseismic monitoring. Providing a practical user guide for survey design, quality control, interpretation, and application of microseismic hydraulic fracture monitoring, this book will be of interest to geoscientists and engineers involved in development of unconventional reservoirs.



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Editorial Review

About the Author

Shawn Maxwell is chief geophysicist and microseismic adviser for Schlumberger s Microseismic Services corporate business unit and is based in Calgary, Alberta, Canada. He has been a pioneer in the use of imaging hydraulic fractures using microseismic, particularly for shale reservoirs. Maxwell has authored numerous engineering and geophysical papers highlighting all aspects of microseismic acquisition, processing, and interpretation, with a particular emphasis on practical application to engineering challenges. He was a 2013 SPE distinguished lecturer, presenting What Have We Learned about Fracturing Shales after 12 Years of Microseismic Mapping? Maxwell served as a lecturer at Keele University in England after earning a Ph.D. specializing in microseismology from Queen s University in Kingston, Ontario, Canada.

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