



Reservoir Geomechanics

By Mark D. Zoback

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This interdisciplinary book encompasses the fields of rock mechanics, structural geology and petroleum engineering to address a wide range of geomechanical problems that arise during the exploitation of oil and gas reservoirs. It considers key practical issues such as prediction of pore pressure, estimation of hydrocarbon column heights and fault seal potential, determination of optimally stable well trajectories, casing set points and mud weights, changes in reservoir performance during depletion, and production-induced faulting and subsidence. The book establishes the basic principles involved before introducing practical measurement and experimental techniques to improve recovery and reduce exploitation costs. It illustrates their successful application through case studies taken from oil and gas fields around the world. This book is a practical reference for geoscientists and engineers in the petroleum and geothermal industries, and for research scientists interested in stress measurements and their application to problems of faulting and fluid flow in the crust.

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Editorial Review

Review

'A very comprehensive and complete book spanning all the aspects of stress within the accessible Earth. It is particularly useful in the fields of oil industry, geothermics and seismic hazard.' Tectonophysics

'... a strong and authoritative treatment ... Professor Zoback's book will be a valued guide and reference to geoscientists and engineers.' International Journal of Rock Mechanics and Mining Sciences

'A major advantage of the book is ... that it provides an excellent crossover between aspects of structural geology and reservoir engineering - a link that is all too often overlooked. ... It is customary to have an 'ah but ...', bit towards the end, but I genuinely have very few quibbles with this book. ... I would recommend it to any geologist working in a situation where faults or fractures interact with the present-day stress field.'

Tim Needham, Needham Geoscience, Illkley

About the Author

Mark Zoback is the Benjamin M. Page Professor of Earth Sciences and Professor of Geophysics in the Department of Geophysics at Stanford University. The author/co-author of approximately 250 published research papers, he is a Fellow of the Geological Society of America, the American Geophysical Union, and the American Association for the Advancement of Science. In 2006 he was awarded the Emil Wiechert Medal of the German Geophysical Society and in 2008, the Walter S. Bucher Medal of the American Geophysical Union.

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