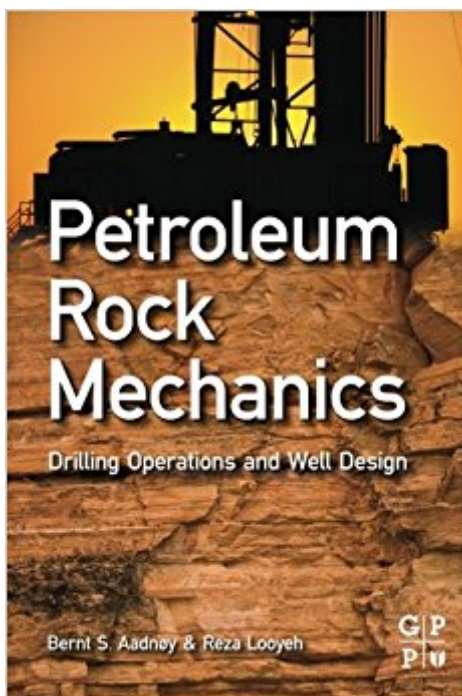


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Petroleum Rock Mechanics: Drilling Operations And Well Design



Synopsis

Petroleum Rock Mechanics: Drilling Operations and Well Design covers the fundamentals of solid mechanics and petroleum rock mechanics and their application to oil and gas-related drilling operations and well design. More specifically, it examines the role of formation, strength of rock materials, and wellbore mechanics, along with the impact of in-situ stress changes on wellbore and borehole behavior. Practical examples with solutions and a comprehensive glossary of terminologies are provided. Equations are incorporated into well-known failure criteria to predict stresses and to analyze a range of failure scenarios throughout drilling, well operation, and well completion processes. The book also discusses stress and strain components, principal and deviatoric stresses and strains, materials behavior, the theories of elasticity and inelasticity, probabilistic analysis of stress data, the tensile and shear strength of rocks, wellbore stability, and fracture and collapse behavior for both single and multi-lateral wells. Both inexperienced university students and experienced engineers will find this book extremely useful. Clearly applies rock mechanics to on and off shore oil and gas drilling Step by Step approach to the analyze wellbore instabilities Provides worked out examples with solutions to everyday problems

Book Information

Paperback: 376 pages

Publisher: Gulf Professional Publishing; 1 edition (June 9, 2011)

Language: English

ISBN-10: 0123855462

ISBN-13: 978-0123855466

Product Dimensions: 6 x 0.9 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 6 customer reviews

Best Sellers Rank: #762,688 in Books (See Top 100 in Books) #68 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures](#) #166 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Mining](#) #181 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum](#)

Customer Reviews

Department of Petroleum Engineering, University of Stavanger, Stavanger, Norway

Great book for any petroleum engineer, grad or undergraduated student. The books covers the main aspects of the subject within a very clean and organized approach, and brings excercises in the end of the chapters that helps to fix the contents.

thx good job

Excellent book

Very useful book, it covers almost all the fundamental knowledge in this area, I think it is necessary for petroleum engineers.

Perfect!

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