

Mechanics Of Hydraulic Fracturing

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Mechanics Of Hydraulic Fracturing

Mechanics of Hydraulic Fracturing M. KING HUBBERT MEMBER AIME DAVID G. WILLIS JUNIOR MEMBER AIME SHELL DEVELOPMENT CO. HOUSTON, TEX. T. P. 4597 ABSTRACT A theoretical examination of the fracturing of rocks by means of pressure applied in boreholes leads to the conclusion that, regardless of whether the fracturing

Mechanics of Hydraulic Fracturing

Revised to include current components considered for today's unconventional and multi-fracture grids, Mechanics of Hydraulic Fracturing, Second Edition explains one of the most important features for fracture design — the ability to predict the geometry and characteristics of the hydraulically induced fracture. With two-thirds of the world's oil and natural gas reserves committed to unconventional resources, hydraulic fracturing is the best proven well stimulation method to extract ...

Mechanics of Hydraulic Fracturing: Yew, Ching H., Weng ...

Mechanics of Hydraulic Fracturing [Yew, Ching H.] on Amazon.com. *FREE* shipping on qualifying offers. Mechanics of Hydraulic Fracturing

Mechanics of Hydraulic Fracturing: Yew, Ching H ...

The hydraulic fracturing process has been employed to enhance the production of oil and gas from underground reservoirs for more than forty years. In the process, the frac-fluid is pumped at a high pressure into a selected section of wellbore. This fluid pressure creates a fracture extending into the rock medium, which contains oil or gas.

Mechanics of Hydraulic Fracturing | ScienceDirect

Updated to accommodate today's fracturing jobs, Mechanics of Hydraulic Fracturing, Second Edition enables the engineer to: Understand complex fracture networks to maximize completion strategies Recognize and compute stress shadow, which can drastically affect fracture network patterns Optimize ...

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Mechanics Of Hydraulic Fracturing - OnePetro Published in Petroleum Transactions, AIME, Vol. 210, 1957, pages 153-168. Paper presented at Petroleum Branch Fall Meeting in Los Angeles, Oct. 14-17, 1956. Abstract A theoretical examination of the fracturing or rocks by means of pressures app

Mechanics Of Hydraulic Fracturing - OnePetro

This chapter discusses basic processes related to hydraulic fracturing. Hydraulic fracturing in rocks takes place when the fluid pressure within the rock exceeds the smallest principal stress plus the tensile strength of the rock. This results in tensile failure or splitting of the rock.

Chapter 11 Mechanics of hydraulic fracturing - ScienceDirect

@article{osti_6840926, title = {Mechanics of hydraulic fracturing}, author = {Hubbert, M K and Willis, D G}, abstractNote = {A theoretical examination of the fracturing of rocks by means of pressure applied in boreholes leads to the conclusion that, regardless of whether the fracturing fluid is of the penetrating or nonpenetrating type, the fractures produced should be approx. perpendicular to the axis of least stress. The general state of stress underground is that in which the 3 principal ...

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Hydraulic stimulation consists of the injection of a highly-viscous fracturing fluid, at a pressure above the pressure of the fractured formation, intending to change the skin factor, looking for negative values. That is to say, to generate flow channels or fractures around the drainage area, placing in the generated channels elements in a ...

HYDRAULIC FRACTURING - GEOMECHANICS - EPCM Holdings

Hydraulic fracture propagation is a coupled problem of solid mechanics (fracture opening and growth) and multiphase fluid mechanics (slurry transport down the wellbore and placement in the fracture). The geomechanics aspect of hydraulic fracturing is thoroughly reviewed (see (Adachi et al., 2007), and the most recent (Detournay, 2016)).

Fluid Mechanics of Hydraulic Fracturing: a Review ...

Description Revised to include current components considered for today's unconventional and multi-fracture grids, Mechanics of Hydraulic Fracturing, Second Edition explains one of the most important features for fracture design — the ability to predict the geometry and characteristics of the hydraulically induced fracture.

Mechanics of Hydraulic Fracturing - 2nd Edition

Fundamentals of hydraulic fracturing In the classic well-stimulation scenario, hydraulic fracturing occurs when the pressure of fluid injected into a formation is sufficient that the force generated exceeds the tensile strength of the rock, as Hubbert had postulated.

Geomechanics of hydraulic fracturing - Coffey

Revised to include current components considered for today's unconventional and multi-fracture grids, Mechanics of Hydraulic Fracturing, Second Edition explains one of the most important features for fracture design — the ability to predict the geometry and characteristics of the hydraulically induced fracture. With two-thirds of the world's oil and natural gas reserves committed to unconventional resources, hydraulic fracturing is the best proven well stimulation method to extract ...

Mechanics of Hydraulic Fracturing, Yew, Ching H., Weng ...

This paper proposes a phase field model (PFM) for describing hydraulic fracture propagation in transversely isotropic media. The coupling between the fluid flow and displacement fields is established according to the classical Biot poroelasticity theory, while the phase field model characterizes the fracture behavior. The proposed method applies a transversely isotropic constitutive ...

Phase field modeling of hydraulic fracture propagation in ...

Hydraulic fracking moves that resource from the pores of the rocks to production wells [source: ProPublica]. It's done by creating horizontal "veins" off a vertical well, and then pumping that horizontal well full of water (plus sand and some chemical additives) at an extremely high pressure.

How Hydraulic Fracking Works | HowStuffWorks

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