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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.

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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 ...

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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)).

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This paper proposes a phase field model (PFM) for describing hydraulic fracture propagation in transversely isotopic 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.

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