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Petroleum geomechanics is the branch of engineering dealing
 with the mechanical properties and behavior of geological
 formations which influence the exploration, development, and
 production of oil and gas. This includes reservoir scale
 phenomena, such as faulting and fracture development over
 geological time, compaction and subsidence caused by ...
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 stresses, pressures, and temperatures interact. This
 understanding is used to solve oilfield problems, such as
 optimizing hydraulic fracturing treatments of shale reservoirs.
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 geophysics, geology, petrophysics, reservoir engineering, drilling
 engineering, and rock physics to ...

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