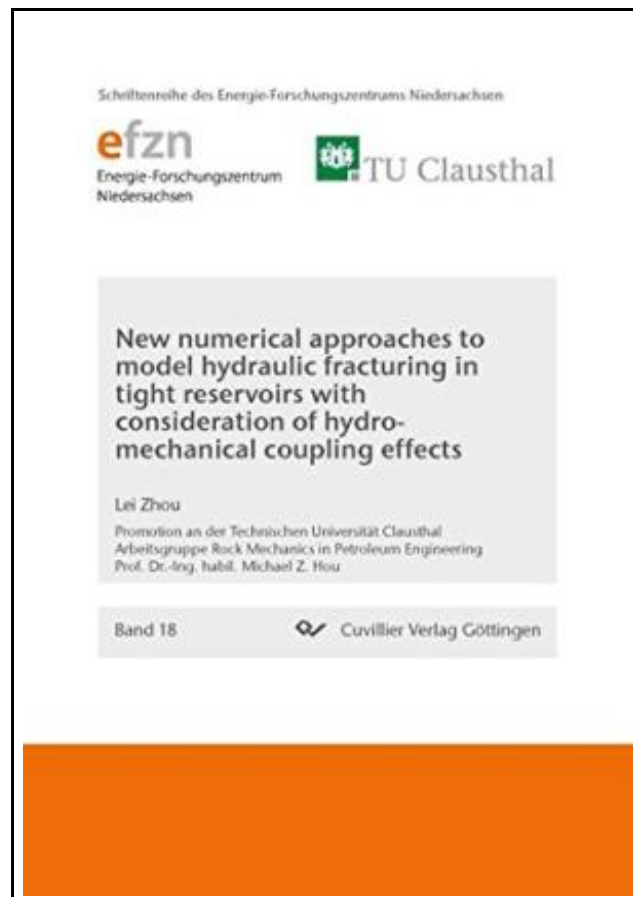


New numerical approaches to model hydraulic fracturing in tight reservoirs with consideration of hydro-mechanical coupling effects



Filesize: 6.91 MB

Reviews

This publication is fantastic. It is one of the most amazing publication i have got study. I am just pleased to explain how this is actually the best pdf i have got read through in my individual lifestyle and could be he finest publication for possibly.

(Mr. Kristoffer Hills)

NEW NUMERICAL APPROACHES TO MODEL HYDRAULIC FRACTURING IN TIGHT RESERVOIRS WITH CONSIDERATION OF HYDRO-MECHANICAL COUPLING EFFECTS



Cuvillier Verlag Mrz 2014, 2014. Taschenbuch. Book Condition: Neu. 211x146x4 mm. Neuware - In this dissertation, two new numerical approaches for hydraulic fracturing in tight reservoir were developed. A more physical-based numerical 3D-model was developed for simulating the whole hydraulic fracturing process including fracture propagation, closure and contact as well as proppant transport and settling. In this approach rock formation, pore and fracture systems were assembled together, in which hydro-mechanical coupling effect, proppant transport and settling as well as their influences on fracture closure and contact were fully considered. A combined FDM and FVM schema was used to solve the problem. Three applications by using the new approach were presented. The results illustrated the whole hydraulic fracturing process well and seemed to be logical, which confirmed the ability of the developed approach to model the in-situ hydraulic fracturing operation from injection start till fully closure. In order to investigate the orientation problem of hydraulic fracturing in tight reservoir, a new approach for simulating arbitrary fracture propagation and orientation in 2D was developed. It was solved by a hybrid schema of XFEM and FVM. Three numerical studies were illustrated, which proved the ability of the developed approach to solve the orientation problem in field cases. 159 pp. Englisch.



[Read New numerical approaches to model hydraulic fracturing in tight reservoirs with consideration of hydro-mechanical coupling effects Online](#)



[Download PDF New numerical approaches to model hydraulic fracturing in tight reservoirs with consideration of hydro-mechanical coupling effects](#)

Related Books



Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children

Paperback. Book Condition: New.

[Save ePub »](#)



A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half

Createspace, United States, 2014. Paperback. Book Condition: New. 251 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.The ultimate learn-by-doing approachWritten for beginners, useful for experienced developers who want to...

[Save ePub »](#)



Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age

Adams Media Corporation. Paperback. Book Condition: new. BRAND NEW, Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age, David Dutwin, TV. Web Surfing. IMing. Text Messaging. Video...

[Save ePub »](#)



My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests

SIMON SCHUSTER, United States, 2010. Paperback. Book Condition: New. Reprint. 212 x 138 mm. Language: English . Brand New Book. One man. Ten extraordinary quests. Bestselling author and human guinea pig A. J. Jacobs puts...

[Save ePub »](#)



Born Fearless: From Kids' Home to SAS to Pirate Hunter - My Life as a Shadow Warrior

Quercus Publishing Plc, 2011. Hardcover. Book Condition: New. No.1 BESTSELLERS - great prices, friendly customer service " all orders are dispatched next working day.

[Save ePub »](#)