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It can even be used to handle model errors in a rock physics model, such as seismic history matching (Luo et al., 2019). Esmailzadeh et al. (2020) proposed a novel hybrid approach in which a physics-based non-local modeling framework was coupled with machine learning techniques to provide a fast and accurate multiscale modeling of compartmentalized reservoirs.

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Read Online Rock Physics Model Based Prediction Of Shear Wave Velocity process is the determination of the effective stress coefficients and dry-rock moduli versus effective pressure, since these properties characterise the acoustic behaviour of the rock. The inversion method based on the shaley sandstone

Rock physics model-based prediction of shear wave velocity in the Barnett Shale formation Zhiqi Guo1 and Xiang-Yang Li2,3 1 College of Geo-Exploration Science and Technology, Jilin University ...

A rock physics model-based method is developed for estimating pore aspect ratio and predicting shear wave velocity V_s from the information of P-wave velocity, porosity and mineralogy in a borehole. Statistical distribution of pore geometry is considered in the rock physics models.

Digital rock physics: numerical prediction of pressure ...

SUMMARY. Digital rock physics combines modern microscopic imaging with advanced numerical simulations to analyse the physical properties of rocks. Elastic-wave propagation modelling based on the microstructure images is used to estimate the effective elastic properties of the rock. The goal of this paper is to describe and understand how laboratory experiments compare with digital rock physics results using Berea sandstone.

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Rock physics models established based on the rock physical properties to support the prediction of the formation rock properties by combining field and experimental data. We mainly seek contributions covering the above topics but will consider works with more general scopes where pore fluids play an important role.

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