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reservoir modeling and simulation play a pivotal role in the field of reservoir engineering enabling efficient hydrocarbon recovery and reservoir management this article provides an

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hence using log data permeability modelling was improved as it incorporates more comprehensive reservoir rock physics the outcomes of this reach work can be used to improve the

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an improved understanding of the intricate geology of the reservoir allows for more effective well placement and better long term field production management equally important is updating the static model to incorporate changes within the reservoir as new petrophysical seismic and other relevant data become available during various phases

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our physics informed machine learning workflow addresses the challenges to real time reservoir management in unconventional namely the lack of data i e the time frame for which the wells

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reservoir simulation is the backbone of many decision making processes in the oil and gas industry topics such as history matching uncertainty quantification and production optimisation are key research areas in petroleum engineering and geosciences

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the results proved the accuracy of the model in predicting the reservoir properties and honoring the heterogeneity of the reservoir the new approach represents a shortcut for the seismic to simulation process providing a reliable and fast way of constructing a reservoir model and making the seismic to simulation process easier abstract in

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reservoir modeling involves the construction of a computer model of an oil or gas reservoir it is used to improve the estimation of reserves support informed decision making regarding field development predict future production determine optimal well placement and evaluate alternative reservoir management scenarios

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to improve the capability of hydrological models to capture flow variability influenced by reservoirs this study proposes a hybrid hydrological modeling framework which combines a process based hydrological model with a machine learning based reservoir operation module designed to simulate runoff under reservoir operations

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abstract the optimization of a hydrocarbon reservoir performance depends on having an accurate characteristic map of the reservoir this map s construction requires a reasonably accurate match to the historical reservoir performance such as pressure and production rate

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therefore this paper proposes a reservoir facies modeling method based on gans 1 for unconditional modeling select training images tis based on priori geological knowledge and use gans to learn priori geological patterns in tis then generate the reservoir facies model by gans 2 for conditional modeling a training method of uncondit

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this paper proposes the use of a machine learning model based on artificial neural networks to represent the non linear dynamic behavior of the reservoir the proposed approach was applied to data generated with a synthetic reservoir simulation model showing promising results

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reservoir flood control scheduling is a challenging optimization task particularly due to the complexity of various constraints this paper proposes an innovative algorithm design approach to

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reservoir modeling is a vital step in the development and production of oil and gas fields an accurate three dimensional reservoir model reduces the uncertainties and drilling risks and leads to a more realistic productive forecast

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seismic reservoir characterization is commonly conducted to support static dynamic modeling porosity prediction through seismic ai acoustic impedance inversion is often applied based on a simple correlation between porosity and ai

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