

Modeling Design Optimization Low Salinity Waterflooding

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Salinity

Using a series of heat recovery models and water treatment process models, this work will demonstrate the economic feasibility and environmental benefits of recovering low-temperature ... of Utah ...

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Deployment of Dynamic Neural Network Optimization to Minimize Heat Rate during Ramping for

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...

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These issues need to be addressed using an appropriate water management (optimization ... and the

results obtained with the model show that the value of disputed water is very low indeed, so that the ...

Optimal Water Management in the Middle East and Other Regions

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The trial used a 2-by-2 factorial design. Patients were randomly assigned, in a 1:1:1:1 ratio, to either a low-dose strategy ... with the use of a linear model (for continuous end points ...

Diuretic Strategies in Patients with Acute Decompensated Heart Failure

Ultimately, with the knowledge, experience and data obtained from the laboratory experiments, modeling, and pilot test, production optimization ... polymer injection, low-salinity water ...

Field lab on Alaska ' s North Slope will validate polymer floods for heavy oil EOR

Committed to accelerating the development of innovative sustainable packaging solutions, evian achieves new milestone in circularity journey with launch of prototype bottle using revolutionary ...

Evian Unveils 100% rPET Bottles Created by Loop Industries' Innovative Recycling Technology

Hart: Another market that has extremely steady growth and rental demand is Salt Lake City ... The advent of optimization pricing models, rental and investment analytic tools give us a strategic ...

TruAmerica Still Bullish on Value-Add Buys

that ties together modeling, design and simulation with installation and operational monitoring, control, and financial optimization, to deploy storage-plus-DG systems at speed and scale.

u.s. energy storage summit 2017

Cameras with really high-quality, low-noise sensors that require little ... of over-aggressive noise suppression is in the white salt grains of the salt grinder in lower left.

Canon 7D Mark II

The M1 chip features an eight-core design alongside a powerful Neural ... it can offer significantly better software optimization than others like Intel. In the case of the Mac, this means that ...

What is Apple Silicon?

Evian Unveils 100% rPET Bottles Created by Loop Industries' Innovative Recycling Technology EQS-News / 20/09/2021 / 03:20 EST/EDT Evian ...

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in macrophages attenuates oxidative stress and as such increases survival of dopaminergic neurons in animal models of Parkinson's disease. Optimization of the drug formulation is crucial for the ...

Macrophages Offer a Paradigm Switch for CNS Delivery of Therapeutic Proteins

In the list below you ' ll find our pick of the best soundbars in 2021, from those that boast Dolby Atmos immersive sound right through to ultra-affordable plug-in-and-go models. Sonos latest ...

The best soundbars for TV shows, movies and music in 2021

On the downside, this air mattress model is not comfortable at all. It sits low to the ... of search engine optimization and Amazon review gamesmanship as its ability to design a quality product.

Best air mattress for 2021

As the demand for more sustainable packaging solutions continues to grow, Loop Industries offers transformational technology that allows no and low value ... by the sun and salt, to its base ...

Evian Unveils 100% rPET Bottles Created by Loop Industries ' Innovative Recycling Technology

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Technology- ...

The low salinity water injection technique (LSWI) has become one of the important research topics in the oil industry because of its possible advantages for improving oil recovery. Several mechanisms describing the LSWI process have been suggested in the literature; however, there is no consensus on a single main mechanism for the low salinity effect on oil recovery. As a result of the latter, there are few models for LSWI and especially for carbonates due to their heterogeneity and complexity. In this research, we proposed a systematic approach for modeling the LSWI effect on oil recovery from carbonates by proposing six different methods for history matching and three different LSWI models for the UTCHEM simulator, empirical, fundamental, and mechanistic LSWI models. The empirical LSWI model uses contact angle measurements and injected water salinity. The fundamental LSWI model captures the effect of LSWI through the trapping number. In the mechanistic LSWI model, we include the effect of different geochemical reactions through Gibbs free energy. Moreover, field-scale predictions of LSWI were performed and followed by a sensitivity analysis for the most influential design parameters using design of experiment (DoE). The LSWI technique was also optimized using the response surface methodology (RSM) where a response surface was built. Also, we moved a step further by investigating the combined effect of injecting low salinity water and carbon dioxide on oil recovery from carbonates through modeling of the process and numerical simulations using the UTCOMP simulator. The analysis showed that CO₂ is the main controller of the residual oil saturation whereas the low salinity water boosts the oil production rate by increasing the oil relative permeability through wettability alteration towards a more water-wet state. In addition, geochemical modeling of LSWI only and the combined effect of LSWI and CO₂ were performed using both UTCHEM and PHREEQC upon which the geochemical model in UTCHEM was modified and validated against PHREEQC. Based on the geochemical interpretation of the LSWI technique, we believe that wettability alteration is the main contributor to the LSWI effect on oil recovery from carbonates by anhydrite dissolution and surface charge change through pH exceeding the point of zero charge.

Low Salinity and Engineered Water Injection for Sandstones and Carbonate Reservoirs provides a first of its kind review of the low salinity and engineered water injection (LSWI/EWI) techniques for today ' s more complex enhanced oil recovery methods. Reservoir engineers today are challenged in the design and physical mechanisms behind low salinity injection projects, and to date, the research is currently only located in numerous journal locations. This reference helps readers overcome these challenging issues with explanations on models, experiments, mechanism analysis, and field applications involved in low salinity and engineered water. Covering significant laboratory, numerical, and field studies, lessons learned are also highlighted along with key areas for future research in this fast-growing area of the oil and gas industry. After an introduction to its techniques, the initial chapters review the main experimental findings and explore the mechanisms behind the impact of LSWI/EWI on oil recovery. The book then moves on to the critical area of modeling and simulation, discusses the geochemistry of LSWI/EWI processes, and applications of LSWI/EWI techniques in the field, including the authors ' own recommendations based on their extensive experience. It is an essential reference for professional reservoir and field engineers, researchers and students working on LSWI/EWI and seeking to apply these methods for increased oil recovery. Teaches users how to understand the various mechanisms contributing to incremental oil recovery using low salinity and engineering water injection (LSWI/EWI) in sandstones and carbonates Balances guidance between designing laboratory experiments, to applying the LSWI/EWI techniques at both pilot-scale and full-field-scale for real-world operations Presents state-of-the-art approaches to simulation and modeling of LSWI/EWI

Download Ebook Modeling Design Optimization Low Salinity Waterflooding

This book contains state-of-the-art contributions in the field of evolutionary and deterministic methods for design, optimization and control in engineering and sciences. Specialists have written each of the 34 chapters as extended versions of selected papers presented at the International Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2013). The conference was one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). Topics treated in the various chapters are classified in the following sections: theoretical and numerical methods and tools for optimization (theoretical methods and tools; numerical methods and tools) and engineering design and societal applications (turbo machinery; structures, materials and civil engineering; aeronautics and astronautics; societal applications; electrical and electronics applications), focused particularly on intelligent systems for multidisciplinary design optimization (mdo) problems based on multi-hybridized software, adjoint-based and one-shot methods, uncertainty quantification and optimization, multidisciplinary design optimization, applications of game theory to industrial optimization problems, applications in structural and civil engineering optimum design and surrogate models based optimization methods in aerodynamic design.

Salinity gradient energy, also known as blue energy and osmotic energy, is the energy obtainable from the difference in salt concentration between two feed solutions, typically sea water and river water. It is a large-scale renewable resource that can be harvested and converted to electricity. Efficient extraction of this energy is not straightforward, however. Sustainable Energy from Salinity Gradients provides a comprehensive review of resources, technologies and applications in this area of fast-growing interest. Key technologies covered include pressure retarded osmosis, reverse electrodialysis and accumulator mixing. Environmental and economic aspects are also considered, together with the possible synergies between desalination and salinity gradient energy technologies. Sustainable Energy from Salinity Gradients is an essential text for R&D professionals in the energy & water industry interested in salinity gradient power and researchers in academia from post-graduate level upwards. For more than ten years the Editors have been sharing substantial research activities in the fields of renewable energy and desalination, successfully participating to a number of European Union research projects and contributing to the relevant scientific literature with more than 100 papers and 2 books on Desalination technologies and their coupling with Renewable Energy. They are intensely working in the field of Salinity Gradient Power, carrying out research with specific focus on open-loop and closed-loop reverse electrodialysis and pressure retarded osmosis. Covers applications of pressure retarded osmosis, reverse electrodialysis, and capacitive mixing for salinity gradient power in one convenient volume Presents the environmental aspects and economics of salinity gradient energy Explores possible synergies between desalination and salinity gradient energy