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Interfacial Phenomena In Petroleum Recovery

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Surface Chemistry in the Petroleum Industry James R. Kanicky, Juan-Carlos Lopez-Montilla, Samir Pandey and ... processes involve interfacial phenomena and surface chemical interactions. In the context of petroleum technology, surface ... in a petroleum reservoir can be water-wet or oil-wet,

CHAPTER 11 Surface Chemistry in the Petroleum Industry

Introduction to Interfacial Engineering Dr. Pallab Ghosh Associate Professor ... 1.1.4 Commonly observed interfacial phenomena 10â€“12 1.1.4.1 Capillary action 10 ... Fig. 1.1.7 Displacement of oil in a petroleum reservoir by chemical flooding using surfactants (Source: L. E. Schramm, Emulsions, ...

Introduction to Interfacial Engineering - NPTEL

Surfactants: Fundamentals and Applications in the Petroleum Industry Laurier L. Schramm ... tion are classic books like Rosenâ€™s Surfactants and Interfacial Phenomena [1]andMyersâ€™SurfactantScienceandTechnology[2],andthemanyother ... Applications in the Petroleum Industry Gas/Liquid Systems

Surfactants: Fundamentals and Applications in the

Interfacial sciences in unconventional petroleum production: from fundamentals to applications ... understanding the interfacial phenomena involved in unconventional petroleum production, such as ...

(PDF) Interfacial sciences in unconventional petroleum

MIT OCW: 18.357 Interfacial Phenomena 2 Prof. John W. M. Bush . 1. Introduction, Notation We consider fluid systems dominated by the influence of interfacial tension. The roles of curvature pressure and Marangoni stress are elucidated in a variety of situations. Particular attention will be given to the

18.357 Interfacial Phenomena, Lectures All

Interfacial tensions of 10 normal alkane + water/brine and hydrocarbon mixture + water/brine systems were measured by using a pendent drop instrument. The temperature and pressure ranges of measurements are (25 to 80) Â°C and (1 to 300) bar, respectively. The effects of temperature, pressure, and salt content have been studied.

Interfacial Tension of Hydrocarbon + Water/Brine Systems

equation since two surfaces are created, one in front and one in the back) and the interfacial tension is the force applied to the system per distance $V F d / A$, therefore $V W / 2A$. The interfacial tension can be viewed as the energy per unit of area (cohesion work) required to creating a new surface of liquid.

CHAPTER 3: SURFACE AND INTERFACIAL TENSION

@article{osti_5606067, title = {Interfacial phenomena in petroleum recovery}, author = {Morrow, N.R.}, abstractNote = {Oil recovery from porous sedimentary rocks depends mainly on the overall efficiency with which oil is displaced by some other fluid. The fraction of the reservoir swept by the displacing fluid depends on the combined effect of injection patterns, mobility ratio, and reservoir heterogeneity, which together determine volumetric sweep efficiency.}

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(PDF) Dissociation of polar oil components in low salinity

Many interfacial phenomena are found in the chemical or petrochemical processes: separation by flotation, liquid-liquid extraction, water conditioning etc. Some processes are based on the formation of a dispersed system such as emulsion polymerization.

INTERFACIAL PHENOMENA in DISPERSED SYSTEMS

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