

CRUDE OIL

Waxes, Emulsions, and Asphaltenes



J.R. Becker

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November 1 1997

Adel M. Elsharkawy



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Offshore Pipelines Boyun Guo,Shanhong Song Ph.D.,Ali Ghalambor,Tian Ran Lin PhD,2013-07-24 The development of oil and gas fields offshore requires specialized pipeline equipment The structures must be strong enough to with stand the harshest environments and ensure that production is not interrupted and remains economically feasible However recent events in the Gulf of Mexico have placed a new importance on maintenance and reliability A new section Condition Based Maintenance CBM introduces the subject of maintenance written by Tian Ran Lin Queensland University of Technology and Yong Sun CSIRO Earth Science and Resource Engineering Two of the main objectives of CBM is maximizing reliability while preventing major or minor equipment malfunction and minimizing maintenance costs In this new section the authors deal with the multi objective condition based maintenance optimization problem CBM provides two major advantages 1 an efficient approach for weighting maintenance objectives and 2 a method for specifying physical methods for achieving those objectives Maintenance cost and reliability objectives are calculated based on proportional hazards model and a control limit CBM replacement policy Written primarily for engineers and management personnel working on offshore and deepwater oil and gas pipelines this book covers the fundamentals needed to design Install and commission pipeline projects This new section along with a thorough update of the existing chapters represents a 30% increase in information over the previous edition Covers offshore maintenance and maintenance support system Provides the fundamentals needed to design Install and commission pipeline project Methods and tools to deliver cost effective maintenance cost and system reliability New section on Condition Based Maintenance written by Tian Ran Lin Queensland University of Technology and Yong Sun CSIRO Earth Science and Resource Engineering yong sun csiro au **CRC Handbook of Thermal Engineering** Raj P.

Chhabra,2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe Crude Oil Waxes, Emulsions, and Asphaltenes J. R. Becker,1997 Oilfield waxes and emulsions are petroleum byproducts that increase the costs of production transportation and refining by causing equipment failures plugged pipelines and decreased throughput This book is the first of its kind in explaining the physical chemical problems associated with waxes and emulsions and the new technologies for treatment of these problems Crude Oil

Emulsions Manar Abdel-Raouf,2012-03-02 Petroleum black gold is the most important nonrenewable source of energy It is a complex mixture of different phases and components Refining it provides a vast number of organic compounds all of them of

which are used to produce petroleum based products for numerous applications from industry to medicine from clothing to food industries We can find petroleum based products all around us This book deals with some important topics related to petroleum such as its chemical composition and stability It is well known that the chemical composition of crude oil differs according to the site of production and its grade varies from waxy to asphaltenic crude Both of them are refined to produce different products The stability of crude oil on aging and transportation is governed by several factors and these factors are included within this book Some new technologies for petroleum characterization are also introduced This book is aimed at researchers chemical engineers and people working within the petroleum industry Effect of Inorganic Solids, Wax to Asphaltene Ratio, and Water Cut On the Stability of Water-in-Crude Oil Emulsions Adel M. Elsharkawy,2006 **Crude Oil Emulsions** Manar El-Sayed Abdel-Raouf,2012 *Practices and Methods of Preventing and Treating Crude-oil Emulsions* Gerald Bernard Shea,1939 **Crude Oil Emulsion Stability Determination and Its Implications in Enhanced Oil Recovery** Xiuyu Wang,2010 Water in crude oil emulsions can form during oil production especially when enhanced oil recovery EOR methods are applied including Alkaline Surfactant AS Alkaline Surfactant Polymer ASP flooding and possibly LoSal TM water flooding The pros and cons of emulsion formation have motivated significant research in the oil industry The ultimate objective of this study is to better understand water in crude oil emulsions stabilizing mechanisms This work is a step further towards engineering and designing conditions that promote recovery based on emulsions for commercially applied and proposed EOR methods I carried out water in oil emulsion stability analysis based on bottle tests at controlled centrifugal force and temperature and an electrorheological technique developed in this project Several parameters affecting the stability of water in oil emulsions were examined including oil to water ratio oil type and rheology aqueous phase composition and temperature By changing oil to water ratio we found that the higher the oil fraction used in preparing the emulsions the more stable the emulsions were The stability comparison for two crude oils with different asphaltene content showed that the heavier oil with higher asphaltene content produced significantly more stable emulsions for all brines tested Brine composition for EOR formulations often has to be tuned to allow for the design of stable formulations in chemical flooding Our results showed that the lower the brine ionic strength the higher the stability of the crude oil emulsions The effect of cation species in the brine was examined by comparing the stability of emulsions made with either purely monovalent or divalent salts to yield the same overall ionic strength It is observed that divalent cations in the brine contributed to the formation of more stable emulsions than monovalent cations for all oils tested The stability of water in oil emulsions is controlled by either the oil film rheology between approaching drops which is mainly a function of the continuous phase viscosity or and by the strength of drop interfacial surfaces In our work temperature is regulated to control the viscosity of the continuous phase and hence determine its effect on emulsion stability through film drainage in contrast with interfacial strength control Additionally stabilization mechanisms for water in crude oil emulsions were investigated

Given the molecular complexity of crude oils more than one component is likely responsible for emulsion stability and we speculate that stability is the outcome of competing material adsorption on water crude oil interfaces For two oils examined the presence of soluble acids and their complexes could be the dominant emulsion stabilizing agents while for the heaviest oil used asphaltenes are possibly more active than organic acids in crude oil to stabilize emulsions Our results suggest that divalent cations may form more active surface complexes with naphthenic acid and or asphaltenes than monovalent cations

Characterization of Asphaltenes and Resins Separated from Water-in-Crude Oil Emulsions Formed in Kuwaiti Oil Firelds

Adel M. Elsharkawy,2005

Crude Oil Waxes Emulsions And Asphaltenes Paperback November 1 1997 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Crude Oil Waxes Emulsions And Asphaltenes Paperback November 1 1997**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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