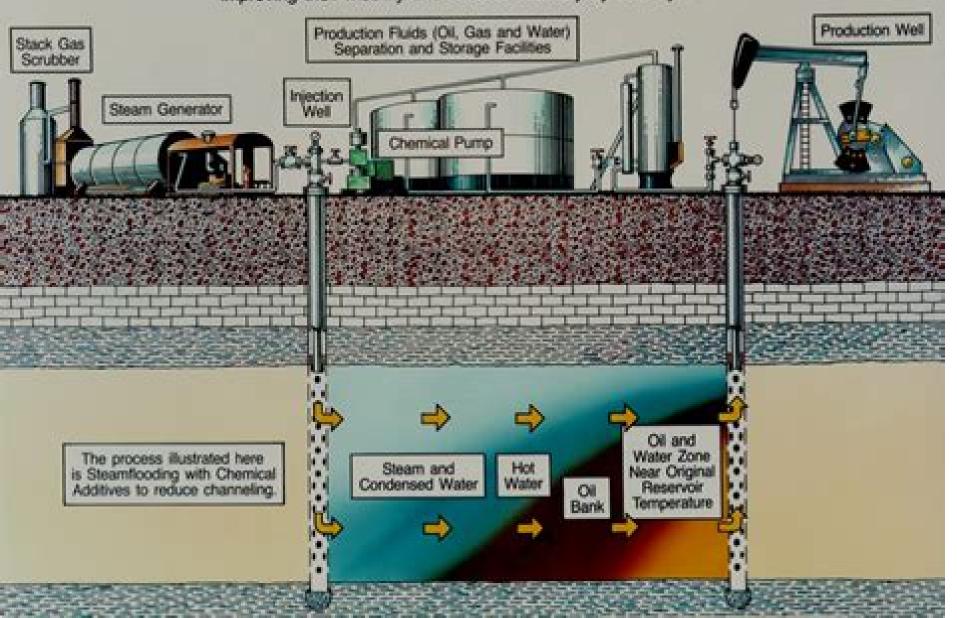
# THERMAL RECOVERY

This is accomplished either by hot fluid injection (hot water or steam) or in situ combustion (burning a part of the crude oil in place). Variations of these methods improve production of crudes by heating them, thereby improving their mobility and ease of recovery by fluid injection.



# **Thermal Recovery Of Oil And Bitumen**

Chun Huh, Hugh Daigle, Valentina Prigiobbe, Masa Prodanovic

#### Thermal Recovery Of Oil And Bitumen:

Thermal Recovery of Oil and Bitumen Roger M. Butler,1991 Describes the recovery of heavy oils and bitumen by in situ thermal methods and discusses the technical factors and problems involved The book summarizes in a quantitative manner techniques used in current petroleum industry practice

Thermal Recovery of Oil and Bitumen Roger M. Butler,1997

Thermal Recovery of Oil and Bitumen Roger M. Butler,1997-01-01 Colloids and Interfaces in Oil Recovery
Spencer Taylor,2019-06-21 It is well known that colloid and interface science and petroleum production are inextricably
linked Whether in the reservoir with its porous structure or during recovery crude oil is intimately associated with rock
surfaces and with water often in the form of emulsions This situation leads to highly complex systems comprising multiple
colloids and interfaces which require to be optimized if oil is to be recovered efficiently both in terms of economic cost and
with due concern for the environment This book contains a compilation of contemporary research topics which illustrate
various aspects of the importance of colloids and interfaces in crude oil recovery through modifying conditions between the
rock crude oil and water in the reservoir in order to achieve improved oil recovery The specific topics covered relate both to
conventional oils in which waterflooding is the most common secondary and tertiary means of recovery and to non
conventional heavy oil and natural bitumen which require thermal recovery methods owing to their high viscosity

Enhanced Oil Recovery Ajay Mandal, Keka Ojha, 2023-11-29 Oil recovery efficiency can be increased by applying the enhanced oil recovery EOR processes which are based on the improvement of mobility ratio reduction of interfacial tension between oil and water wettability alteration reduction of oil viscosity formation of oil banks and so forth This book describes the different EOR methods and their mechanisms which are traditionally used after conventional primary and secondary processes The present scenario of different EOR processes at both the field application stage and research stage is also covered Further it discusses some of the recent advances in EOR processes such as low salinity water flooding the application of nanotechnology in EOR microbial EOR carbonated water injection etc Features Comprehensive coverage of all enhanced oil recovery EOR methods Discussion of reservoir rock and fluid characteristics Illustration of steps in design and field implementation as well as the screening criteria for process selection Coverage of novel topics of nanotechnology in EOR and hybrid EOR method and low salinity waterfloods Emphasis on recent technologies feasibility and implementation of hybrid technologies This book is aimed at graduate students professionals researchers chemists and personnel involved in petroleum engineering chemical engineering surfactant manufacturing polymer manufacturing oil gas service companies and carbon capture and utilization **Hydroprocessing of Heavy Oils and Residua** Jorge Ancheyta, James G. Speight, 2007-05-08 Many oil refineries employ hydroprocessing for removing sulfur and other impurities from petroleum feedstocks Capable of handling heavier feedstocks than other refining techniques hydroprocessing enables refineries to produce higher quality products from unconventional and formerly wasted sources Hydroprocessing of Heavy Oils and

Residua Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands James G. Speight, 2016-02-24 Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands Second Edition explores the importance of enhanced oil recovery EOR and how it has grown in recent years thanks to the increased need to locate unconventional resources such as heavy oil and shale Unfortunately petroleum engineers and managers aren t always well versed in the enhancement methods that are available when needed or the most economically viable solution to maximize their reservoir s productivity This revised new edition presents all the current methods of recovery available including the pros and cons of each Expanded and updated as a great preliminary text for the newcomer to the industry or subject matter this must have EOR guide teaches all the basics needed including all thermal and non thermal methods along with discussions of viscosity sampling and the technologies surrounding offshore applications Enables users to guickly learn how to choose the most efficient recovery method for their reservoir while evaluating economic conditions Presents the differences between each method of recovery with newly added real world case studies from around the world Helps readers stay competitive with the growing need of extracting unconventional resources with new content on how these complex reservoirs interact with injected reservoir fluids Heavy Oil Recovery and Upgrading James G. Speight, 2019-03-05 Heavy Oil Recovery and Upgrading covers properties factors methods and all current and upcoming processes giving engineers new and experienced the full spectrum of recovery choices including SAGD horizontal well technology and hybrid approaches Moving on to the upgrading and refining of the product the book also includes information on in situ upgrading refining options and hydrogen production Rounding out with environmental effects management methods on refinery waste and the possible future configurations within the refinery this book provides engineers with a single source to make decisions and manage the full range of challenges Hybrid Enhanced Oil Recovery Processes for Heavy Oil Reservoirs Xiaohu Dong, Huiging Liu, Zhangxing Chen, 2021-10-27 Hybrid Enhanced Oil Recovery Processes for Heavy Oil Reservoirs Volume 73 systematically introduces these technologies As the development of heavy oil reservoirs is emphasized the petroleum industry is faced with the challenges of selecting cost effective and environmentally friendly recovery processes This book tackles these challenges with the introduction and investigation of a variety of hybrid EOR processes In addition it addresses the application of these hybrid EOR processes in onshore and offshore heavy oil reservoirs including theoretical experimental and simulation approaches This book will be very useful for petroleum engineers technicians academics and students who need to study the hybrid EOR processes In addition it will provide an excellent reference for field operations by the petroleum industry Introduces emerging hybrid EOR processes and their technical details Includes case studies to help readers understand the application potential of hybrid EOR processes from different points of view Features theoretical experimental and simulation studies to help readers understand the advantages and challenges of each process **Practical Nanotechnology for Petroleum Engineers** Chun Huh, Hugh Daigle, Valentina Prigiobbe, Masa Prodanovic, 2019-03-04 This book is a concise but

well organized introduction to nanotechnology NT which the upstream oil industry is now vigorously adapting to develop its own unique applications for improved oilfield operations and oil and gas production Its reader will learn nanotechnology fundamentals be introduced to important NT products and applications from other industries and learn about the current state of development of various NT applications in the upstream oil industry which include innovative use of nanoparticles for enhanced oil recovery drilling and completions reservoir sensing and production operations and flow assurance Key Features Exclusive title on potential of nanoparticle based agents and interventions for improving myriad of oilfield operations Unique quide for nanotechnology applications developers and users for oil and gas production Introduces nanotechnology for oil and gas managers and engineers Includes research data discussions relevant to field Offers a practical applications oriented Enhanced Recovery Methods for Heavy Oil and Tar Sands James G. Speight, 2013-11-25 Recent oil price approach fluctuations continue to stress the need for more efficient recovery of heavy oil and tar sand bitumen resources With conventional production steadily declining advances in enhanced recovery will be required so that oil production can be extended and reservoirs last longer A practical guide on heavy oil related recovery methods is essential for all involved in heavy oil production To feed this demand James Speight a well respected scientist and author provides a must read for all scientists engineers and technologists that are involved in production enhancement In Enhanced Recovery Methods for Heavy Oil and Tar Sands Speight provides the current methods of recovery for heavy oil and tar sand bitumen technology broken down by thermal and non thermal methods An engineer graduate student or professional working with heavy oil upcoming and current will greatly benefit from this much needed text Oil Shales and Tar Sands United States. Department of Energy, 1977 Enhancement of Heavy Oil/bitumen Thermal Recovery Using Nano Metal Particles Yousef Hamedi Shokrlu, University of Alberta. Department of Civil and Environmental Engineering, 2014 Cyclic steam stimulation CSS and steam assisted gravity drainage SAGD are the most commonly applied techniques used for heavy oil HO and bitumen B recovery However these methods especially CSS suffer from low recovery factor and production of highly viscous oil that requires additional up grading treatment for transportation The objective of this dissertation is to overcome such problems by application of metal nano particles as catalysts During the steam stimulation process a series of reactions called aquathermolysis occur among oil water and reservoir matrix These reactions tend to break down the complex and big organosulfur compounds in the asphaltene fraction of the HO B by cleaving the C S bonds Catalyzing these reactions can provide significant upgrading of the oil at the temperature range of steam stimulation This catalysis can be achieved by using transition metal nano particles In this research nickel which is commercially used in many catalysis processes in the industry is used for this purpose Initially the interactions of the nickel nano particles with oil and water at different temperatures are studied and the effect of the concentration size and type of the catalyst on the process is evaluated Next a methodology is proposed to efficiently stabilize and inject the metal nano particles into heavy oil reservoirs for catalysis purpose Also the

degree of catalysis of the aquathermolysis is determined by studying the kinetics of the aquathermolysis and catalytic aquathermolysis of heavy oil Finally the effect of this catalysis on the recovery factor of the model cyclic steam stimulation is studied experimentally In addition to steam injection dominated by aquathermolysis reactions the influence of the nickel ionic solution on the low temperature oxidation during in situ combustion is studied through TGA FTIR and kinetic analysis It is concluded that the quality of the produced oil can be significantly improved by using the nickel nano particles during steam stimulation or in situ combustion. The recovery factor of the above mentioned recovery processes also increases due to decreasing oil viscosity in the reservoir by catalysis This method can significantly improve the economics of the thermal heavy oil recovery projects and decrease the complexities of heavy oil transportation and ex situ upgrading Update ,1977 Encyclopedia of Renewable Energy James G. Speight, 2022-01-19 Dieses Buch aus der Feder eines hoch angesehenen Ingenieurs und Verfassers zahlreicher Ver ffentlichungen im Energiesektor ist das umfassendste gr ndlichste und aktuellste Nachschlagewerk ber erneuerbare Energien Die weltweite Energiewirtschaft ist und war schon immer unbest ndig und manchmal widerspr chlich mit erratischen Ausschl gen nach oben und unten Dies war in der Vergangenheit vor allem darauf zur ckzuf hren dass der Gro teil unserer Energie aus fossilen Brennstoffen stammt die eine begrenzt verf gbare Energiequelle darstellen Es kommt immer wieder vor dass eine Technologie wie das Fracking einen entscheidenden Wandel herbeif hrt Aber tut sie das wirklich Z gern wir mit diesen vor bergehenden Preiskorrekturen nicht nur das Unvermeidliche hinaus Den einzigen wirklichen Wandel bringen die erneuerbaren Energien Schon seit Jahrzehnten werden erneuerbare Energieguellen ausfindig gemacht weiterentwickelt und untersucht Manchmal steht die Windenergie im Vordergrund manchmal die Solarenergie und in den letzten rund zehn Jahren hat das Interesse an Biorohstoffen und Biokraftstoffen stark zugenommen Au erdem gibt es noch die Dauerbrenner Technologien der Kernenergie und Geothermie die beide schon seit sehr langer Zeit genutzt werden In diesem v llig neuen Werk sind die genannten Themen und Trends in Form einer Enzyklop die dargestellt die als schnelles Nachschlagewerk fr Ingenieure Wissenschaftler und Studierende dient und auch fr Laien geeignet ist die in der Branche arbeiten oder sich einfach fr das Thema interessieren Die Beitr ge wurden von einem der weltweit bekanntesten und angesehensten Energieingenieure zusammengestellt Damit ist dieses Buch die umfassendste und aktuellste Enzyklop die ber erneuerbare Energien die derzeit erh ltlich ist und gehrt in jede Bibliothek Die Encyclopedia of Renewable Energy Ist im Stil einer Enzyklop die geschrieben und befasst sich mit s mtlichen Aspekten der erneuerbaren Energien darunter Windkraft Solarenergie und vielen anderen Themen Bietet einen umfassenden berblick ber die Branche von den chemischen Prozessen zur Gewinnung von Biorohstoffen und Biokraftstoffen bis zu den Maschinen und Anlagen die zur Kraftstoffproduktion und in der Stromerzeugung eingesetzt werden Enth lt zahlreiche praxistaugliche Beispiele und Designs die bei der praktischen Anwendung helfen Ist auf dem aktuellen Stand der Technik und damit ein wichtiges Referenzwerk frjeden Ingenieur Synthetic Fuels United States. Patent and Trademark Office. Office of Technology

Assessment and Forecast, 1979 The Desulfurization of Heavy Oils and Residua James G. Speight, 1999-11-05 Second Edition expands and updates information on the technological aspects of refining heavy oils residua bitumen and other high Energy Research Abstracts ,1979 sulfur feedstocks Focuses on the range of next generation refining processes Shale ,2000 Summary of International Energy Research and Development Activities 1974-1976 Sam Stuart, 2013-10-22 Summary of International Energy Research and Development Activities 1974 1976 is a directory of energy research and development projects conducted in various countries such as Canada Italy Germany France Sweden and the United Kingdom between 1974 and 1976 A limited number of projects sponsored by international organizations such as the International Atomic Energy Agency are also included This directory consists of nine chapters and opens with a section on organic sources of energy such as coal oil and gas peat hydrocarbons and non fossil organic sources. The next sections focus on thermonuclear energy and plasma physics fission sources and energy production geophysical energy sources conversion technology and environmental aspects of energy conversion and use Energy transport transmission utilization and conservation are also covered The final chapter deals with energy systems and other energy related research on subjects ranging from car sharing and urban passenger transport to nuclear power plants energy supply and demand models and high power molecular lasers This monograph will be a valuable resource of information for those involved in energy research and development

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