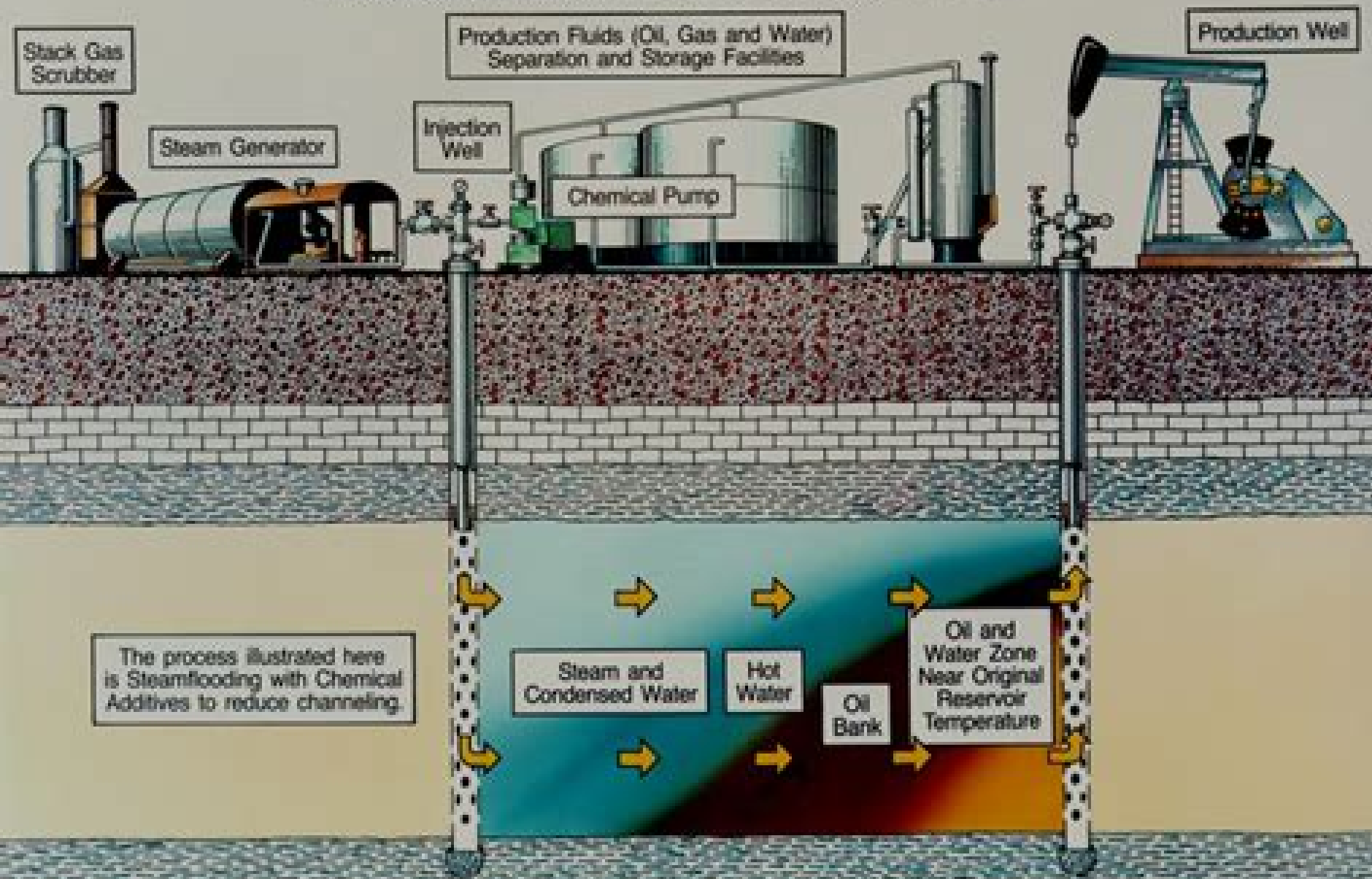


THERMAL RECOVERY

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

Roger M. Butler



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,1997-01-01 **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

Hybrid Enhanced Oil Recovery Processes for Heavy Oil Reservoirs Xiaohu Dong,Huiqing 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

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 **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 guide 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 approach **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 **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 quickly 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.

Fossil Energy Update, 1977 *Oil Shales and Tar Sands* United States. Department of Energy, 1977 Synthetic Fuels United States. Patent and Trademark Office. Office of Technology Assessment and Forecast, 1979 Official Gazette of the United States Patent and Trademark Office, 1980

Encyclopedia of Renewable Energy James G. Speight, 2022-01-19. Dieses Buch aus der Feder eines hoch angesehenen Ingenieurs und Verfassers zahlreicher Veröffentlichungen im Energiesektor ist das umfassendste, gründlichste und aktuellste Nachschlagewerk über erneuerbare Energien. Die weltweite Energiewirtschaft ist und war schon immer unbeständig und manchmal widersprüchlich mit erratischen Ausschlägen nach oben und unten. Dies war in der Vergangenheit vor allem darauf zurückzuführen, dass der Großteil unserer Energie aus fossilen Brennstoffen stammt, die eine begrenzte verfügbare Energiequelle darstellen. Es kommt immer wieder vor, dass eine Technologie wie das Fracking einen entscheidenden Wandel herbeiführt. Aber tut sie das wirklich? Zögern wir mit diesen vorgehenden Preiskorrekturen nicht nur das Unvermeidliche hinaus. Den einzigen wirklichen Wandel bringen die erneuerbaren Energien. Schon seit Jahrzehnten werden erneuerbare Energiequellen 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 Biomaterialien und Biokraftstoffen stark zugenommen. Außerdem gibt es noch die Dauerbrenner Technologien der Kernenergie und Geothermie, die beide schon seit sehr langer Zeit genutzt werden. In diesem völlig neuen Werk sind die genannten Themen und Trends in Form einer Enzyklopädie dargestellt, die als schnelles Nachschlagewerk für Ingenieure, Wissenschaftler und Studierende dient und auch für Laien geeignet ist, die in der Branche arbeiten oder sich einfach für das Thema interessieren. Die Beiträge wurden von einem der weltweit bekanntesten und angesehensten Energieingenieure zusammengestellt. Damit ist dieses Buch die umfassendste und aktuellste Enzyklopädie über erneuerbare Energien, die derzeit erhältlich ist und gehört in jede Bibliothek. Die Encyclopedia of Renewable Energy ist im Stil einer Enzyklopädie geschrieben und befasst sich mit sämtlichen Aspekten der erneuerbaren Energien, darunter Windkraft, Solarenergie und vielen anderen Themen. Bietet einen umfassenden Überblick über die Branche, von den chemischen Prozessen zur Gewinnung von Biomaterialien und Biokraftstoffen bis zu den Maschinen und Anlagen, die zur Kraftstoffproduktion und in

der Stromerzeugung eingesetzt werden Enthält zahlreiche praxistaugliche Beispiele und Designs die bei der praktischen Anwendung helfen Ist auf dem aktuellen Stand der Technik und damit ein wichtiges Referenzwerk für jeden Ingenieur

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 sulfur feedstocks Focuses on the range of next generation refining processes

Energy Research Abstracts ,1979 Oil Shale ,2000

Recovery Improvement Qiwei Wang,2022-09-06 Oil and Gas Chemistry Management Series brings an all inclusive suite of tools to cover all the sectors of oil and gas chemicals from drilling completion to production processing storage and transportation The third reference in the series Recovery Improvement delivers the critical chemical basics while also covering the latest research developments and practical solutions Organized by the type of enhanced recovery approaches this volume facilitates engineers to fully understand underlying theories potential challenges practical problems and keys for successful deployment In addition to the chemical gas and thermal methods this reference volume also includes low salinity smart water microorganism and nanofluid based recovery enhancement and chemical solutions for conformance control and water shutoff in near wellbore and deep in the reservoir Supported by a list of contributing experts from both academia and industry this book provides a necessary reference to bridge petroleum chemistry operations from theory into more cost efficient and sustainable practical applications Covers background information and practical guidelines for various recovery enhancement domains including chapters on enhanced oil recovery in unconventional reservoirs and carbon sequestration in CO2 gas flooding for more environment friendly and more sustainable initiatives Provides effective solutions to control chemistry related issues and mitigation strategies for potential challenges from an industry list of experts and contributors Delivers both up to date research developments and practical applications featuring various case studies

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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