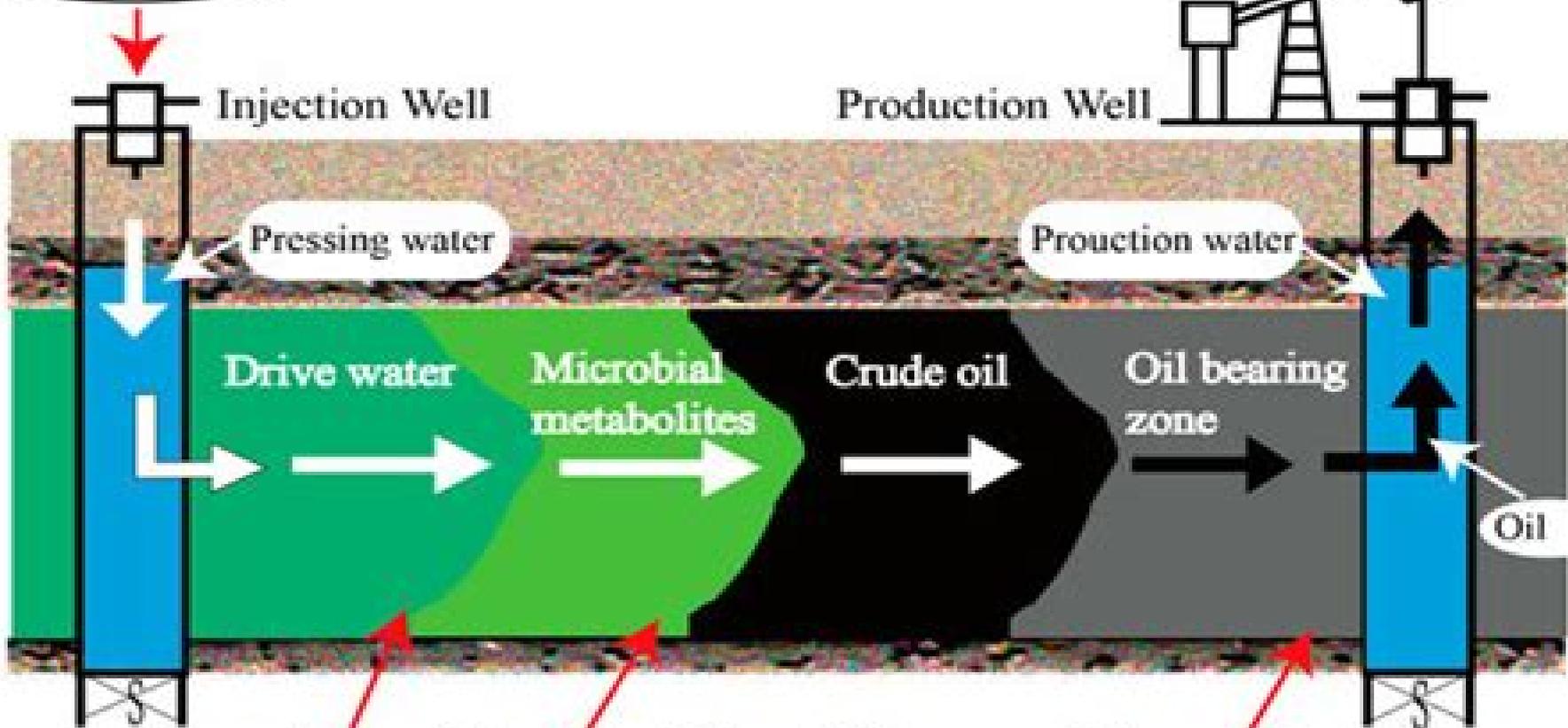


Bacteria, nutrient and/or biosurfactant



- Enhanced oil mobility
- Biodegradation of crude oil, etc.

Microbial metabolites:

- Biosurfactants
- Biopolymers
- Biogenic acids
- Biosolvents
- Biogases
- Biomass
- Emulsifiers

- Enhanced oil recovery

Microbial Enhanced Oil Recovery

**T. Satyanarayana, Bhavdish Narain
Johri, Anil Prakash**

Microbial Enhanced Oil Recovery:

Microbial Enhanced Oil Recovery T.F. Yen,1989-12-21 This volume provides a comprehensive review that consolidates all of the pertinent information available Microbial Enhanced Oil Recovery MEOR involves many scientific disciplines many different approaches and many different countries This book supplies the information needed for continued development of MEO methods and points out areas where information is lacking and where more research is needed This easy to use resource focuses on the three types of MEOR processes which can be utilized to recover oil from reservoirs Successful MEOR involves contributions from petroleum chemical genetic environmental geotechnical and bioengineering Also geology chemistry and microbiology play a major role as well This critical review book includes a comprehensive reference list and opens the lines of communication among the various fields of study This work will also encourage the exchange of ideas and interaction necessary for success in this quickly developing technology Scientists researchers and practitioners will find this text to be interesting informative and indispensable consolidatesR

Theory and Practice in Microbial Enhanced Oil Recovery Kun Sang Lee,Tae-Hyuk Kwon,Taehyung Park,Moon Sik Jeong,2020-07-18 Selection of the optimal recovery method is significantly influenced by economic issues in today s oil and gas markets Consequently the development of cost effective technologies which bring maximum oil recovery is the main interest in today s petroleum research communities Theory and Practice in Microbial Enhanced Oil Recovery provides the fundamentals latest research and creditable field applications Microbial Enhanced Oil Recovery MEOR is potentially a low priced and eco friendly technique in which different microorganisms and their metabolic products are implemented to recover the remaining oil in the reservoir Despite drastic advantages of MEOR technology it is still not fully supported in the industry due to lack of knowledge on microbial activities and their complexity of the process While some selected strategies have demonstrated the feasibility to be used on a mass scale through both lab and field trials more research remains to implement MEOR into more oil industry practices This reference delivers comprehensive descriptions on the fundamentals including basic theories on geomicrobiology experiments and modeling as well as current tested field applications Theory and Practice in Microbial Enhanced Oil Recovery gives engineers and researchers the tool needed to stay up to date on this evolving and more sustainable technology Covers fundamental screening criteria and theories selective plugging and mobility control mechanisms Describes the basic effects on environmental parameters and the mechanics of simulation including microbial growth kinetics Applies up to date practical applications proven in both the lab and the field

Microbial Enhanced Oil Recovery Lalit Pandey,Pankaj Tiwari,2021-10-21 This book presents the fundamentals of the reservoir and interfacial engineering The book systematically starts with the basics of primary secondary and tertiary enhanced oil recovery and emphasizes on the theory of microbial enhanced oil recovery MEOR and its potential toward recovery of oil in place Different approaches of MEOR such as in situ ex situ and integration of chemical and microbial enhanced oil recovery EOR are discussed in detail This book highlights the

link between the effectiveness of MEOR and the local reservoir conditions crude oil characteristics and indigenous microbial community The latest implementations of MEOR across the globe are highlighted as case studies to outline the potential as well as the scope of MEOR Given the topics covered this book will be useful for professionals and researchers working in the areas of petroleum science and engineering chemical engineering biotechnology bioengineering and other related fields

Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs Alireza

Bahadori,2018-08-18 Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery including methods used in emerging unconventional reservoirs Going beyond traditional secondary methods this reference includes advanced water based EOR methods which are becoming more popular due to CO₂ injection methods used in EOR and methods specific to target shale oil and gas activity Rounding out with a chapter devoted to optimizing the application and economy of EOR methods the book brings reservoir and petroleum engineers up to speed on the latest studies to apply Enhanced oil recovery continues to grow in technology and with ongoing unconventional reservoir activity underway enhanced oil recovery methods of many kinds will continue to gain in studies and scientific advancements Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go to reference Explains enhanced oil recovery methods focusing specifically on those used for unconventional reservoirs Includes real world case studies and examples to further illustrate points Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes a full range of the latest and future methods for enhanced oil recovery including chemical waterflooding CO₂ injection and thermal

Petroleum Microbiology Bernard Ollivier,Michel Magot,2005 A state of the art presentation of the specific microbes that inhabit oil reservoirs with an emphasis on the ecological significance of anaerobic microorganisms Provides fundamental and applied biological approaches and serves as an invaluable reference source for petroleum engineers remediation professionals and field researchers

Biosurfactants for a Sustainable Future Hemen Sarma,Majeti Narasimha Vara Prasad,2021-04-19 Biosurfactants for a Sustainable Future Explore the state of the art in biosurfactant technology and its applications in environmental remediation biomedicine and biotechnology Biosurfactants for a Sustainable Future explores recent developments in biosurfactants and their use in a variety of cutting edge applications The book opens a window on the rapid development of microbiology by explaining how microbes and their products are used in advanced medical technology and in the sustainable remediation of emerging environmental contaminants The book emphasizes the different techniques that are used for the production of biosurfactants from microorganisms and their characterization Various aspects of biosurfactants including structural characteristics developments production bio economics and their sustainable use in the environment and biomedicine are addressed and the book also presents metagenomic strategies to facilitate the discovery of novel biosurfactants producing microorganisms Readers will benefit from the inclusion of A thorough introduction to the

state of the art in biosurfactant technology techniques and applications An exploration of biosurfactant enhanced remediation of sediments contaminated with organics and inorganics A discussion of perspectives for biomedical and biotechnological applications of biosurfactants A review of the antiviral antimicrobial and antibiofilm potential of biosurfactants against multi drug resistant pathogens An examination of biosurfactant inspired control of methicillin resistant *Staphylococcus aureus* Perfect for academic researchers and scientists working in the petrochemical industry pharmaceutical industry and in the agroindustry Biosurfactants for a Sustainable Future will also earn a place in the libraries of scientists working in environmental biotechnology environmental science and biomedical engineering

Primer on Enhanced Oil Recovery Vladimir Vishnyakov, Baghir Suleimanov, Ahmad Salmanov, Eldar Zeynalov, 2019-11-06 Primer on Enhanced Oil Recovery gives the oil and gas market the introductory information it needs to cover the physical and chemical properties of hydrocarbon reservoir fluids and rock drilling operations rock fluid interactions recovery methods and the economy of enhanced oil recovery projects Beginning with introductory materials on basic physics and oil rock interaction the book then progresses into well known types of EOR such as gas injection and microbial EOR Other sections cover hybrid EOR smart water low salinity and solar EOR Worldwide case study examples give engineers the go to starting point they need to understand the fundamentals of EOR techniques and data

Microbial Enhancement of Oil Recovery - Recent Advances E.T. Premuzic, A. Woodhead, 1993-07-23 This volume is concerned with many aspects of petroleum microbiology and biochemistry all with strong commercial applications Worldwide research on the major topic MEOR Microbially Enhanced Oil Recovery is comprehensively covered under experimental work field applications and modeling The challenge of formulating a complete in situ MEOR system microorganisms nutrient package and other amendments is explored together with the future needs in the design and execution of this new biotechnology

Enhanced Oil Recovery in Shale and Tight Reservoirs James J. Sheng, 2019-11-07 Oil Recovery in Shale and Tight Reservoirs delivers a current state of the art resource for engineers trying to manage unconventional hydrocarbon resources Going beyond the traditional EOR methods this book helps readers solve key challenges on the proper methods technologies and options available Engineers and researchers will find a systematic list of methods and applications including gas and water injection methods to improve liquid recovery as well as spontaneous and forced imbibition Rounding out with additional methods such as air foam drive and energized fluids this book gives engineers the knowledge they need to tackle the most complex oil and gas assets Helps readers understand the methods and mechanisms for enhanced oil recovery technology specifically for shale and tight oil reservoirs Includes available EOR methods along with recent practical case studies that cover topics like fracturing fluid flow back Teaches additional methods such as soaking after fracturing thermal recovery and microbial EOR

Microbial Enhanced Oil Recovery James E. Zajic, 1983-01-01 *Enhanced Oil Recovery*, 1990

Microorganisms in Sustainable Agriculture and Biotechnology T. Satyanarayana, Bhavdish Narain Johri, Anil Prakash, 2012-01-02 This review of recent developments in

our understanding of the role of microbes in sustainable agriculture and biotechnology covers a research area with enormous untapped potential. Chemical fertilizers, pesticides, herbicides, and other agricultural inputs derived from fossil fuels have increased agricultural production, yet growing awareness and concern over their adverse effects on soil productivity and environmental quality cannot be ignored. The high cost of these products, the difficulties of meeting demand for them, and their harmful environmental legacy have encouraged scientists to develop alternative strategies to raise productivity with microbes playing a central role in these efforts. One application is the use of soil microbes as bioinoculants for supplying nutrients and/or stimulating plant growth. Some rhizospheric microbes are known to synthesize plant growth promoters, siderophores, and antibiotics, as well as aiding phosphorus uptake. The last 40 years have seen rapid strides made in our appreciation of the diversity of environmental microbes and their possible benefits to sustainable agriculture and production. The advent of powerful new methodologies in microbial genetics, molecular biology, and biotechnology has only quickened the pace of developments. The vital part played by microbes in sustaining our planet's ecosystems only adds urgency to this enquiry. Culture-dependent microbes already contribute much to human life, yet the latent potential of vast numbers of uncultured and thus untouched microbes is enormous. Culture-independent metagenomic approaches employed in a variety of natural habitats have alerted us to the sheer diversity of these microbes and resulted in the characterization of novel genes and gene products. Several new antibiotics and biocatalysts have been discovered among environmental genomes, and some products have already been commercialized. Meanwhile, dozens of industrial products, currently formulated in large quantities from petrochemicals such as ethanol, butanol, organic acids, and amino acids, are equally obtainable through microbial fermentation.

Edited by a trio of recognized authorities on the subject, this survey of a fast-moving field with so many benefits within reach will be required reading for all those investigating ways to harness the power of microorganisms in making both agriculture and biotechnology more sustainable.

Enhanced Oil Recovery, II E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1989-07-01

Written by foremost experts in the field and formulated with attention to classroom use for advanced studies in reservoir characterization and processes, this book reviews and summarises state-of-the-art progress in the field of enhanced oil recovery (EOR). All of the available techniques—alkaline flooding, surfactant flooding, carbon dioxide flooding, steam flooding, in situ combustion, gas injection, miscible flooding, microbial recovery, and polymer flooding—are discussed and compared. Together with Volume I, it presents a complete text on enhanced recovery technology and hence is an almost indispensable reference text. This second volume complements the first by presenting as complete an analysis as possible of current oilfield theory and technology for accomplishment of maximum production of oil. Many different processes have been developed and field tested for enhancement of oil recovery. The emerging philosophy is that no single process is applicable to all petroleum reservoirs. Each must be treated as unique and carefully evaluated for characteristics that are amenable to one or two of the proven technologies of EOR. This book will aid the engineer in field evaluation and selection of the best EOR

technology for a given oilfield Even the emerging technology of microbial applications to enhance oil recovery are reviewed and explained in terms that are easily understood by field engineers The book is presented in a manner suitable for graduate studies The only addition required of teachers is to supply example problems for class work An appendix includes a reservoir mathematic model and program for general application that can also be used for teaching

Current Research Topics In Applied Microbiology And Microbial Biotechnology - Proceedings Of The Ii International Conference On Environmental, Industrial And Applied Microbiology (Biomicro World 2007) Antonio Mendez-vilas,2009-01-22 This book contains a compilation of papers presented at the II International Conference on Environmental Industrial and Applied Microbiology BioMicroWorld2007 held in Seville Spain on 28 November 1 December 2007 where over 550 researchers from about 60 countries attended and presented their cutting edge research The main goals of this book are to 1 identify new approaches and research opportunities in applied microbiology presenting works that link microbiology with research areas usually related to other scientific and engineering disciplines and 2 communicate current research priorities and progress in the field The contents of this book mirror this focus Microbiologists interested in environmental industrial and applied microbiology and in general scientists whose research fields are related to applied microbiology can find an overview of the current state of the art in the topic In addition to the more general topic some chapters are devoted to specific branches of microbiology research such as bioremediation biosurfactants microbial factories biotechnologically relevant enzymes and proteins microbial physiology metabolism and gene expression and future bioindustries

Microbial Extracellular Polymeric Substances Jost Wingender,1999-10-20 Microbial extracellular polymeric substances EPS are the key components for the aggregation of microorganisms in biofilms flocs and sludge They are composed of polysaccharides proteins nucleic acids lipids and other biological macromolecules EPS provide a highly hydrated gel matrix in which microbial cells can establish stable synergistic consortia Cohesion and adhesion as well as morphology structure biological function and other properties such as mechanical stability diffusion sorption and optical properties of microbial aggregates are determined by the EPS matrix Also the protection of biofilm organisms against biocides is attributed to the EPS Their matrix allows phase separation in biofiltration and is also important for the degradation of particulate material which is of great importance for the self purification processes in surface waters and for waste water treatment In this volume analysis characterization composition regulation function and interactions of microbial EPS are covered

Chemical Enhanced Oil Recovery Patrizio Raffa,Pablo Druetta,2019-07-22 This book aims at presenting describing and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes A large part of the world economy depends nowadays on non renewable energy sources most of them of fossil origin Though the search for and the development of newer greener and more sustainable sources have been going on for the

last decades humanity is still fossil fuel dependent Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place Enhanced Oil Recovery EOR processes are aimed at further increasing this value Among these chemical EOR techniques including polymer flooding present a great potential in low and medium viscosity oilfields Describes recent advances in chemical enhanced oil recovery Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR Includes both experimental and theoretical studies About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR coatings and smart materials He co authored about 40 articles in peer reviewed journals Pablo Druetta works as lecturer at the University of Groningen RUG and as engineering consultant He received his Ph D from RUG in 2018 and has been teaching at a graduate level for 15 years His research focus lies on computational fluid dynamics CFD **Oilfield Microbiology** Torben Lund Skovhus, Corinne Whitby, 2019-03-29

Microorganisms can be both beneficial and harmful to the oil and gas industry and therefore there is an increasing need for the oil industry to characterize quantify and monitor microbial communities in real time Oilfield Microbiology offers a fundamental insight into how molecular microbiological methods have enabled researchers in the field to analyze and quantify in situ microbial communities and their activities in response to changing environmental conditions Such information is fundamental to the oil industry to employ more directed cost effective strategies to prevent the major problems associated with deleterious microbial activities e g souring and biocorrosion as well as to encourage beneficial microbe activity e g oil bioremediation The aim of the book is to understand how the technological advances in molecular microbiological methods over the last two decades are now being utilized by the oil industry to address the key issues faced by the sector This book contains a comprehensive collection of chapters written by invited experts in the field from academia and industry and provides a solid foundation of the importance of microbes to the oil and gas industry It is aimed at microbial ecologists molecular biologists operators engineers chemists and academics involved in the sector Microbial Enhanced Oil Recovery Research M. M. Sharma, 1991 **Proceedings of the 25th Pan-American Conference of Naval**

Engineering—COPINAVAL Adán Vega Sáenz, Newton Narciso Pereira, Luis Manuel Carral Couce, José Angel Fraguela Formoso, 2018-07-04 This book presents selected contributions to the Pan American Congress of Naval Engineering Maritime Transport and Port Engineering COPINAVAL which is in its twenty fifth edition and has become a reference event for the global maritime and port sector attracting more and more participants from different countries The 2017 congress was held in Panama City Panama bringing together a select group of scientists entrepreneurs academics and professionals to discuss the latest technological advances in the maritime industry

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