

1. Record Nr.	UNINA9910506401303321
Autore	Pandey Lalit
Titolo	Microbial Enhanced Oil Recovery : Principles and Potential
Pubbl/distr/stampa	Singapore : , : Springer Singapore Pte. Limited, , 2021 ©2022
ISBN	981-16-5465-4
Descrizione fisica	1 online resource (272 pages)
Collana	Green Energy and Technology Ser.
Altri autori (Persone)	TiwariPankaj
Soggetti	Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Intro -- Contents -- Editors and Contributors -- Abbreviations/Nomenclature -- Petroleum Reservoirs and Oil Production Mechanisms -- 1 Introduction -- 2 Reservoir Potential -- 2.1 Geological Setting -- 2.2 Petroleum Reserves -- 3 Physicochemical Characterization of a Petroleum Reservoir -- 3.1 Composition and Mineralogy of Petroleum Reservoir -- 3.2 Characterization of Pore Distribution -- 3.3 Reservoir Fluid Properties -- 4 Classification of Petroleum Reservoir -- 5 Reservoir Drive Mechanisms -- 6 Material Balance Equation (MBE) -- 7 Reservoir Drive Performance Indexes (RDPI) -- 8 Conclusion -- References -- Secondary and Tertiary Oil Recovery Processes -- 1 Introduction -- 2 Important Parameters and Mechanisms of EOR -- 3 Secondary Oil Recovery Methods -- 3.1 Waterflooding -- 3.2 Gas Injection -- 3.3 Buckley Leverett Model to Oil Recovery -- 4 Tertiary Oil Recovery Methods -- 4.1 Thermal EOR Methods -- 4.2 Chemical EOR Methods -- 4.3 Gas EOR Methods -- 4.4 Microbial EOR -- 5 Screening Criteria for EOR Methods -- 6 Core Flooding Experiments for EOR -- 7 Modeling and Simulation of EOR Process -- 8 Conclusion -- References -- CO2-Based Enhanced Oil Recovery -- 1 Introduction -- 2 Recovery Mechanisms for CO2 Flooding -- 3 Screening Criteria and Challenges Associated with CO2 Flooding -- 4 Water-Alternating-Gas/CO2 (WAG) Flooding -- 5 Sources of CO2, Capture, and Storage -- 6 Evaluation of CO2-EOR Flooding -- 6.1 MMP Determination -- 6.2 Fluid Sampling -- 6.3 Measuring PVT Properties for Reservoir fluid-CO2 Mixtures -- 6.4 Evaluation of Oil</p>

Recovery Potential by CO₂ Flooding -- 6.5 Modeling and Simulation
Study of CO₂ Flooding -- 7 Conclusion -- References -- Optimum
Formulation of Chemical Slug and Core Flooding Studies -- 1
Introduction -- 2 Mechanisms Involved in Chemical EOR -- 3 Chemicals
Selection Criteria.
3.1 Alkali Screening Based on Crude Oil and Reservoir Properties -- 3.2
Surfactant Selection and Flooding in Reservoirs -- 3.3 Polymer
Selection for Heavy Crude Oil -- 4 Optimum Slug Formation
for Chemical EOR -- 4.1 Individual Chemical Flooding -- 4.2 Combined
Effects of Chemical Flooding -- 4.3 Potential and Progress of Alkali-
Surfactant-Polymer Flooding -- 5 Core Flooding of Alkali-Surfactant-
Polymer in Laboratories -- 6 Field Application of Alkali-Surfactant-
Polymer Slug -- 7 Technical Issues and Their Solutions of ASP Flooding
-- 8 Conclusion -- References -- Screening of Extremophiles
for Microbial Enhanced Oil Recovery Based on Surface Active Properties
-- 1 Introduction -- 2 Screening of Extremophiles -- 2.1 Concept
of Extremophiles in MEOR and Their Classifications -- 2.2 Strategies
of Extremophiles to Perform MEOR -- 2.3 Screening of Extremophiles
from Various Environments -- 2.4 Screening Parameters
for Extremophiles -- 2.5 Technological Advancement in MEOR
by Employing rDNA Technology and Genetically Engineered Microbes --
2.6 In-Situ MEOR by Screened Extremophiles -- 3 Conclusion --
References -- Effect of Reservoir Environmental Conditions
and Inherent Microorganisms -- 1 Introduction -- 2 Influence
of Reservoir Environmental Conditions -- 2.1 Properties of Crude Oil --
2.2 Rock Lithology -- 2.3 Reservoir Temperature and Pressure -- 2.4
Environmental pH -- 2.5 Fluid Salinity -- 2.6 Permeability -- 3
Microbiological Approaches for Detecting Inherent Microorganisms -- 4
Microbial Diversity in Worldwide Oil Reservoirs -- 4.1 Various Microbial
Populations in Worldwide Oil Reservoirs -- 5 Reservoir Environmental
Screening Parameters to Conduct MEOR Trials -- 6 Conclusion --
References -- Optimization of Culture Conditions for the Production
of Biosurfactants -- 1 Introduction -- 2 Optimizing Parameters -- 2.1
pH -- 2.2 Temperature.
2.3 Carbon (C) Source -- 2.4 Nitrogen (N) Source -- 2.5 C/N Ratio --
2.6 Other Factors -- 3 Optimization Designs -- 3.1 One-Factor-At-A-
Time (OFAT) -- 3.2 Plackett-Burman Design (PBD) -- 3.3 Taguchi
Model -- 3.4 Response Surface Methodology (RSM) -- 3.5 Artificial
Neural Network and Genetic Algorithm -- 4 Bottlenecks of Optimization
-- 5 Conclusion -- References -- Design of Consortium
for the Production of Desired Metabolites -- 1 Introduction -- 1.1
Biosurfactant-Producing Microbes -- 1.2 Hydrocarbon-Degrading
Microbes -- 2 Design of Microbial Consortium -- 3 Criteria
for Designing Microbial Consortium -- 4 Advantages of Microbial
Consortium Over Pure Isolates -- 5 Conclusion -- References --
Identification of Various Metabolites like Gases, Biopolymers
and Biosurfactants -- 1 Introduction -- 2 Production of Microbial
Metabolites -- 2.1 Biosurfactants -- 2.2 Biopolymers -- 2.3 BioGases
-- 2.4 Other Metabolites -- 3 Metabolic Pathways Involved
in the Production of the Above Metabolites -- 3.1 Biosurfactant
Synthesis -- 3.2 Rhamnolipid Biosynthesis -- 3.3 Biopolymer Synthesis
-- 3.4 Biogases Synthesis -- 4 Identification Techniques Involved
in the Synthesis of Metabolites -- 4.1 Fourier Transform Infrared
Spectroscopy (FTIR) -- 4.2 Nuclear Magnetic Resonance (NMR) -- 4.3
Mass Spectroscopy -- 5 Conclusion -- References -- Core Flooding
Studies Using Microbial Systems -- 1 Introduction -- 2 Basics of Core
Flooding Experiments Using Biosurfactant Systems -- 3 Core Flooding
Investigations Utilizing Biosurfactant Systems -- 3.1 In-Situ and Ex-

Situ MEOR in Core Flooding Experiments with Biosurfactants -- 4 Core-Flooding Studies Employing Mixed Biosurfactant Systems -- 5
Application of Mathematical Modelling for MEOR -- 6 Conclusion --
References -- Recent Case Studies of In-Situ and Ex-Situ Microbial Enhanced Oil Recovery -- 1 Introduction.
2 Case Studies of In-Situ MEOR -- 2.1 Key Factors Affecting the In-Situ MEOR Process -- 3 Case Studies of Ex-Situ MEOR -- 4 Conclusion -- References.

2. Record Nr.	UNINA9910967293103321
Autore	Watson Wilfred G. E
Titolo	Classical Hebrew poetry : a guide to its techniques / / Wilfred G.E. Watson
Pubbl/distr/stampa	Sheffield, England, : JSOT Press, Dept. of Biblical Studies, University of Sheffield, c1984
ISBN	9786611802431 9781281802439 1281802433 9780567434166 0567434168
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (xviii, 460 pages)
Collana	Journal for the study of the Old Testament. Supplement series ; ; 26
Disciplina	892.4/11/09 892.41109
Soggetti	Hebrew poetry, Biblical - History and criticism Hebrew poetry - History and criticism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes texts in Akkadian, Hebrew, and Ugaritic, with English translations. Based on the author's thesis (doctoral). Includes bibliographies and indexes.
Nota di contenuto	Contents; Foreword; Abbreviations; Short Titles of Frequently Mentioned Works; Festschriften; 1 INTRODUCTION; 2 POETIC TEXTS IN OTHER SEMITIC LANGUAGES; 3 ANALYSING HEBREW POETRY: NOTES ON METHOD; 4 THE HEBREW POET IN ACTION; 5 METRE; 6 PARALLELISM; 7

STANZA AND STROPHE; 8 VERSE-PATTERNS; 9 SOUND IN HEBREW POETRY; 10 IMAGERY; 11 POETIC DEVICES; 12 SECONDARY TECHNIQUES; 13 APPENDIX: WORKED EXAMPLES; CLOSING COMMENTS; INDEXES

Sommario/riassunto

In spite of debatable issues, such as metre, we now know enough about classical Hebrew poetry to be able to understand how it was composed. This large-scale manual, rich in detail, exegesis and bibliography, provides guidelines for the analysis and appreciation of Hebrew verse. Topics include oral poetry, metre, parallelism and forms of the strophe and stanza. Sound patterns and imagery are also discussed. A lengthy chapter sets out a whole range of other poetic devices and the book closes with a set of worked examples of Hebrew poetry.