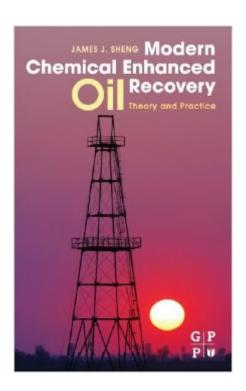
The book was found

Modern Chemical Enhanced Oil Recovery: Theory And Practice





Synopsis

Crude oil development and production in U.S. oil reservoirs can include up to three distinct phases: primary, secondary, and tertiary (or enhanced) recovery. During primary recovery, the natural pressure of the reservoir or gravity drive oil into the wellbore, combined with artificial lift techniques (such as pumps) which bring the oil to the surface. But only about 10 percent of a reservoir's original oil in place is typically produced during primary recovery. Secondary recovery techniques to the field's productive life generally by injecting water or gas to displace oil and drive it to a production wellbore, resulting in the recovery of 20 to 40 percent of the original oil in place. In the past two decades, major oil companies and research organizations have conducted extensive theoretical and laboratory EOR (enhanced oil recovery) researches, to include validating pilot and field trials relevant to much needed domestic commercial application, while western countries had terminated such endeavours almost completely due to low oil prices. In recent years, oil demand has soared and now these operations have become more desirable. This book is about the recent developments in the area as well as the technology for enhancing oil recovery. The book provides important case studies related to over one hundred EOR pilot and field applications in a variety of oil fields. These case studies focus on practical problems, underlying theoretical and modelling methods, operational parameters (e.g., injected chemical concentration, slug sizes, flooding schemes and well spacing), solutions and sensitivity studies, and performance optimization strategies. The book strikes an ideal balance between theory and practice, and would be invaluable to academicians and oil company practitioners alike. Updated chemical EOR fundamentals? providing clear picture of fundamental conceptsPractical cases with problems and solutions? providing practical analogues and experiences Actual data regarding ranges of operation parameters? providing initial design parametersStep-by-step calculation examples? providing practical engineers with convenient procedures

Book Information

Hardcover: 648 pages

Publisher: Gulf Professional Publishing; 1 edition (November 3, 2010)

Language: English

ISBN-10: 1856177459

ISBN-13: 978-1856177450

Product Dimensions: 6 x 1.4 x 9 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â See all reviews (1 customer review)

Best Sellers Rank: #796,283 in Books (See Top 100 in Books) #177 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Mining #206 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum #4070 in Books > Science & Math > Nature & Ecology > Conservation

Customer Reviews

This book brings the most recent developments in the field to the reader an melds this with the past history and academic research in the field. It contains an extremely large amount of useful and practical information, presented in an easy to read and understand format. The book covers all aspects of Enhanced Oil Recovery (EOR) and contains a wealth of tables, charts and actual field experience. The author's insight into many controversial issues such as scaling and adsorption and Alkaline Surfactant Polymer Flooding versus Surfactant Polymer Flooding are refreshing and sharp. I would recommend this book to anyone involved in EOR from the student level to the seasoned veteran.

Download to continue reading...

Oil Painting: Learn Oil Painting FAST! Learn the Basics of Oil Painting In No Time (Oil Painting Tutorial, Oil Painting Books, Oil Painting For Beginners, Oil Painting Course, Oil Painting) Modern Chemical Enhanced Oil Recovery: Theory and Practice Essential Oils for a Clean and Healthy Home: 200+ Amazing Household Uses for Tea Tree Oil, Peppermint Oil, Lavender Oil, and More Introduction to Chemical Engineering Thermodynamics (The Mcgraw-Hill Chemical Engineering Series) Celebrate Recovery Revised Edition Participant's Guide Set: A Program for Implementing a Christ-centered Recovery Ministry in Your Church The Life Recovery Devotional: Thirty Meditations from Scripture for Each Step in Recovery Enhanced Microsoft Office 2013: Introductory (Microsoft Office 2013 Enhanced Editions) Enhanced Microsoft Excel 2013: Comprehensive (Microsoft Office 2013 Enhanced Editions) Enhanced Microsoft PowerPoint 2013: Comprehensive (Microsoft Office 2013 Enhanced Editions) Enhanced Microsoft Access 2013: Comprehensive (Microsoft Office 2013 Enhanced Editions) Educational Psychology: Theory and Practice, Enhanced Pearson eText with Loose-Leaf Version -- Access Card Package (11th Edition) Extended Electromagnetic Theory, Space Charge in Vacuo and the Rest Mass of Photon (World Scientific Series in Contemporary Chemical Physics) On the theory and practice of painting in oil- and water-colours, with a manual of lithography Coconut Oil and Apple Cider Vinegar Handbook: Use Coconut Oil and Apple Cider Vinegar for Healing, Curing, Beauty, and Glowing Radiant Skin Peak Oil and the Second Great

Depression (2010-2030): A Survival Guide for Investors and Savers After Peak Oil The Nature of the Chemical Bond and the Structure of Molecules and Crystals: An Introduction to Modern Structural Chemistry Constraint-Based Design Recovery for Software Reengineering: Theory and Experiments (International Series in Software Engineering) Oil Pastel Step by Step: Discover the secrets to creating masterpieces in oil pastel (Artist's Library) Oil Painter's Solution Book - Landscapes: Over 100 Answers to Your Oil Painting Questions Understanding Oil Prices: A Guide to What Drives the Price of Oil in Today's Markets (The Wiley Finance Series)

<u>Dmca</u>