

SECOND EDITION

A photograph of several oil pumpjacks (nodding donkeys) in a desert landscape. The pumpjacks are painted in bright blue and orange colors. The background shows a clear blue sky and a flat, arid horizon.

INTRODUCTION TO ENHANCED RECOVERY METHODS FOR HEAVY OIL AND TAR SANDS

JAMES SPEIGHT, PHD, DSC



Enhanced Recovery Methods For Heavy Oil And Tar Sands

**Canadian Heavy Oil Association.
Reservoir Sub-Committee**



Enhanced Recovery Methods For Heavy Oil And Tar Sands:

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

Enhanced Recovery Methods for Heavy Oil and Tar Sands James G. Speight, 2013-11-25 Recent oil price 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

Enhanced Recovery Methods for Heavy Oil and Tar Sands Ajay Paralikar, 2016 This book 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 Recent oil price 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

Heavy Oil Recovery and Upgrading James G. Speight, 2019-02-28 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 Presents the properties mechanisms screening criteria and field applications for heavy oil enhanced recovery projects Includes current upgrading options and future methods for refining heavy oil development Fills in the gaps between literature and practical application for everyday industry reference

Improved Techniques for the Extraction of Primary Forms of Energy UN Economic Commission for Europe,2012-12-06 The Seminar on Improved Techniques for the Extraction of Primary Forms of Energy was organized by the United Nations Economic Commission for Europe ECE and held at Vienna from 10 to 14 November 1980 at the invitation of the Austrian Government Mr H Sparker a Director of the Austrian Mineral Oil Administration OeMV was elected chairman of the seminar Mr V Zanchev Bulgaria Mr J Medaets Belgium and Mr S Doleschall Hungary were elected chairmen of working meetings 1 2 and 3 respectively At the invitation of the Austrian Mineral Oil Administration OeMV the participants inspected the steam injection installations in the Maustrenk and exploratory fields and the oil and gas production facilities in the north Vienna basin In a statement on behalf of the Austrian Government at the opening meeting Mr A Nussbaumer Secretary of State emphasized that remedies for the difficult energy situation depended in the long run on the contribution of scientific and technical research whence the significance of the seminar Efforts now in progress must be directed towards more rational use by means of existing or new techniques of proved resources of fossil fuels The participants would be hoped devote their discussions to more effective technologies which would enable the recovery factor to be improved with fewer repercussions on the environment Austria in general and its Alpine regions in particular were rich in poor mineral deposits and consequently public undertakings universities and industrial research institutions had a very real interest in the seminar's work

World Petroleum Resources And Reserves Joseph Riva,2019-04-25 This book describes and analyzes the geological basis for the current world petroleum situation It explains the formation and accumulation of conventional and unconventional oil and gas and the methods used by geologists in the search for petroleum and petroleum containing basins

Enhanced Recovery of Residual and Heavy Oils M. M. Schumacher,1980 *Energy Research Abstracts* ,1982 **Fossil Energy Update** ,1985 **The Canadian Heavy Oil Association Reservoir Handbook** Canadian Heavy Oil Association. Reservoir Sub-Committee,1991 [Tax Court Reported Decisions](#) United States. Tax Court,1994 [Petroleum Abstracts. Literature and Patents](#) ,1989 **Proceedings of the First Regional Conference on the Development and Utilization of Mineral Resources in Africa, Arusha, 2-6 February 1981** ,1981 **Synthetic Fuels Handbook** James Speight,2020-07-22 Publisher's Note Products purchased from

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Enhanced Recovery Week ,1988 **The Natural Resources Tax Review** ,1994 **The Journal of Canadian Petroleum Technology** ,2008 Heavy Versus Light Oil Ragaei El Mallakh,1983 **International Security** ,1979
Energy Information Abstracts Annual, 1990 ,1990

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Enhanced Recovery Methods For Heavy Oil And Tar Sands Introduction

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