



# Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands, Second Edition

By James G. Speight



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*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

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- Sales Rank: #2089444 in Books
- Published on: 2016-03-07
- Released on: 2016-02-22
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.30" w x 6.00" l, 2.00 pounds
- Binding: Paperback
- 576 pages

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### **Editorial Review**

#### **About the Author**

Dr. Speight is currently editor of the journal Petroleum Science and Technology (formerly Fuel Science and Technology International) and editor of the journal Energy

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James Speight is also a Consultant, Author and Lecturer on energy and environmental issues. He has a B.Sc. degree in Chemistry and a Ph.D. in Organic Chemistry, both from University of Manchester. James has worked for various corporations and research facilities including Exxon, Alberta Research Council and the University of Manchester. With more than 45 years of experience, he has authored more than 400 publications--including over 50 books--reports and presentations, taught more than 70 courses, and is the Editor on many journals including the Founding Editor of Petroleum Science and Technology.

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