



# Heavy and Extra-heavy Oil Upgrading Technologies

*James G. Speight*

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Unconventional reservoirs of oil and gas represent a huge additional global source of fossil fuels. However, there is much still to be done to improve techniques for their processing to make recovery and refining of these particular energy sources more cost-effective. Brief but readable, *Heavy and Extra-heavy Oil Upgrading Technologies* provide readers with a strategy for future production (the up-stream) and upgrading (the down-stream). The book provides the reader with an understandable overview of the chemistry and engineering behind the latest developments and technologies in the industry as well as the various environmental regulations.

Clear and rigorous, *Heavy and Extra-heavy Oil Upgrading Technologies* will prove tool for those scientists and engineers already engaged in fossil fuel science and technology as well as scientists, non-scientists, engineers, and non-engineers who wish to gain a general overview or update of the science and technology of unconventional fossil fuels in general and upgrading technologies in particular. The use of microorganisms and a number of physical methods, such as ultrasound, median microwave, cold plasma, electrokinetic and monocrystalline intermetallics, etc., will be discussed for the first time.

- Overview of the chemistry, engineering, and technology of oil sands
- Microorganisms and a number of physical methods such as ultrasound, median microwave, cold plasma, electrokinetic and monocrystalline intermetallics
- Evolving and new environmental regulations regarding oil sands production processes



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