

## Heavy And Extraheavy Oil Upgrading Technologies 1st Edition

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Heavy and extra-heavy oil upgrading has become an indispensable activity in the prevailing scenario in petroleum refineries. Petroleum refiners have been exploring new options in tandem with ...

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Main Heavy and Extra-heavy Oil Upgrading Technologies. Heavy and Extra-heavy Oil Upgrading Technologies James G. Speight (Auth.) Year: 2013 Publisher: Gulf Professional Publishing Language: english Pages: 169. ISBN 13: 978-0-12-404570-5 File: PDF, 2.36 MB ...

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The underlying objective is to increase the mobility of the oil in the reservoir reducing viscosity and improving the oil quality (e.g. diminishing the asphaltene and sulfur contents and increasing its \*API gravity), using ionic liquids based on iron (10 wt%) and molybdenum (2 wt%) compounds, in a liquid phase homogeneously mixed with heavy crude oil in a batch reactor of 500 ml, at 673 K ...

### Upgrading Heavy and Extraheavy Crude Oil With Ionic Liquid ...

Petroleum upgrading represents a suite of physical and chemical processes whereby raw extra heavy oil and bitumen extracted from oil sands are transformed into synthetic crude oil. Federal and provincial research scientists and engineers, in collaboration with our industry and academic collaborators, are currently working on a number of cutting-edge research and development projects.

### Upgrading Oil Sands and Heavy Oil

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### Heavy And Extra Heavy Oil Upgrading Technologies [EBOOK]

Herein, we report a method of upgrading unconventional crude oils and extra heavy fractions using supercritical methanol (scMeOH) and compare it to supercritical water (sch2O)-based and pyrolytic upgrading. The yields and properties of upgraded oil are explored as functions of operating parameters (temperature, pressure, and concentration) and feedstocks for high-acid crude oils (Laguna and ...

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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

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Supercritical Water Cracking (SCWC) technology can upgrade oil sands, extra heavy oils and high pour point crude oils to synthetic crude oil (SCO) which can be pipeline transportable. Using only water, it is an on-site upgrading process to make those oils accessible to markets through pipelines at ambient temperature.

### SCWC: Partial Upgrading Technology for Extra Heavy Oil ...

Heavy and Extra-heavy Oil Upgrading Technologies [Texte imprimé] / James G Speight. San Diego : Elsevier Science & Technology Books, 2013 1 vol. (176 p.) 978-0-12-404570-5: Material Type: Document, Internet resource: Document Type: Internet Resource, Computer File: All Authors / Contributors: James G Speight

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accelerated heavy oil development of >10°API oil in the Heavy Oil Belt (Figure 2) using CHOPS in the late 1980's and 1990's. The latter resulted in the building of the Regional Upgrader (Husky Oil) in Lloydminster, which is currently producing over 130,000 bbl/d of synthetic crude oil from a feedstock that probably averages 14-15°API.

### Comparing Venezuelan and Canadian Heavy Oil and Tar Sands

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