



Heavy Oil Production Processes

James G. Speight

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As conventional-oil resources are depleted worldwide, vast heavy oil reserves available in various parts of the world become increasingly important as a secure future energy source. Brief but readable, Heavy Oil Production Processes discusses the latest improvements in production processes including; thermal methods (steam floods, cyclic steam stimulation, SAGD) as well as non-thermal methods (cold flow with sand production, cyclic solvent process, VAPEX). The book begins with an overview of the chemistry, engineering, and technology of heavy oil as they evolve into the twenty-first century. The preceding chapters are written to provide a basic understanding of each technology, evolving processes and new processes as well as the various environmental regulations.

Clear and rigorous, Heavy Oil Production Processes will prove useful 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 fossil fuels. The **not only does the book discuss the** production processes but also provides methods which should reduce environmental footprint and improve profitability.

- Overview of the chemistry, engineering, and technology of oil sands
- Updates on the evolving processes and new processes
- Evolving and new environmental regulations regarding oil sands production

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