

Analyzing the safety of removal sequences for piles of an offshore jacket platform^(PDF)

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Title: Analyzing the safety of removal sequences for piles of an offshore jacket platform

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摘要: An inevitable consequence of the development of the offshore petroleum industry is the eventual obsolescence of large offshore structures. Proper methods for removal of decommissioned offshore platforms are becoming an important topic that the oil and gas industry must pay increasing attention to. While removing sections from a decommissioned jacket platform, the stability of the remaining parts is critical. The jacket danger indices $D\sigma$ and D_s defined in this paper are very useful for analyzing the safety of any procedure planned for disassembling a jacket platform. The safest piles cutting sequence can be determined easily by comparing every column of $D\sigma$ and D_s or simply analyzing the figures of every row of $D\sigma$ and D_s .

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