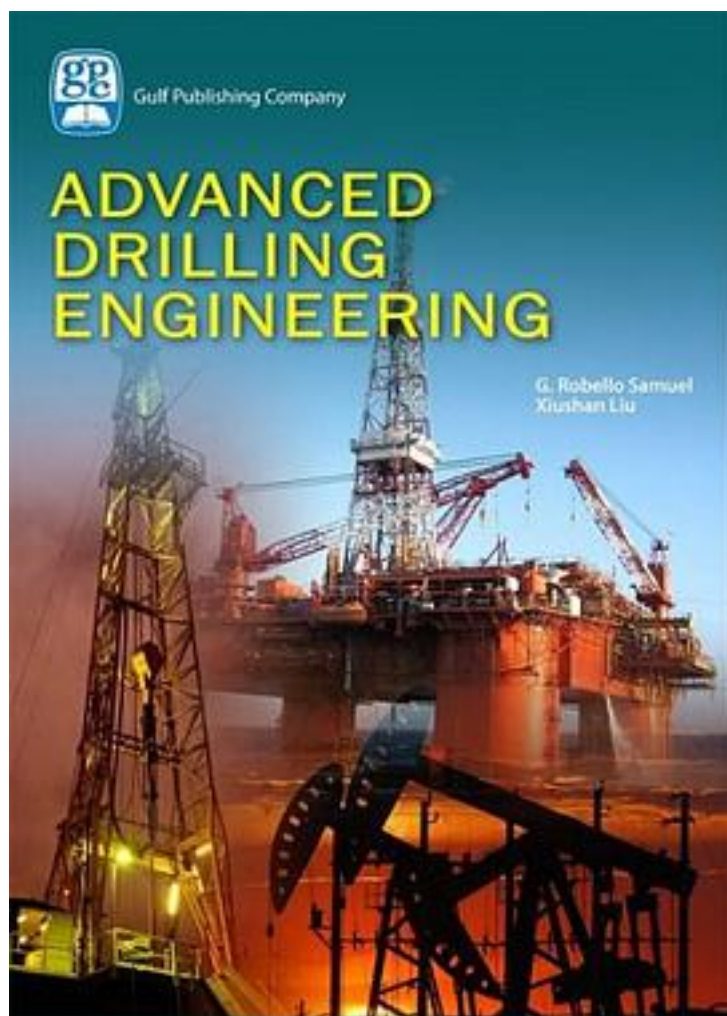


Advanced Drilling Engineering



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Drilling technology has advanced immensely in the past 20 years. Directional drilling

brought on in the late 1980s, rotary steerable drilling and other smart downhole techniques and tools have progressed past the typical vertical and even basic horizontal well, allowing drilling engineers the creativity to design wells of complex geometry with multiple wellpaths and extract energy resources from remote, untapped places. While technology continues to excel, there is an ever growing need for multidisciplinary information and software to assist in the design and planning of complex wells. This volume offers a full understanding of elaborate drilling processes and engineering well design aspects. Starting with essential topics such as well trajectory and wellbore positioning, Samuel explains well-path planning for directional and extended-reach wells. Other vital topics of this title include: collision avoidance, checking for proximity between neighbouring wells; downhole survey tools plus MWD/LWD and through bit logging; intelligent smart well technology including downhole monitoring tools; and, supplementary problems and references at the end of each chapter. Samuel produces the most comprehensive handbook in advanced drilling technology, guiding the drilling engineer to mitigate risks, manage the reservoir effectively and make hidden missed opportunities viable possibilities.

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