



# Drilling Engineering

By J.J. Azar, G. Robello Samuel

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## Drilling Engineering By J.J. Azar, G. Robello Samuel

Coauthored by a leading drilling engineering professor/researcher and a well-experienced drilling research advisor, *Drilling Engineering* explains the fundamentals and field practices in drilling operations. This textbook is an excellent resource for drilling engineers, drilling supervisors and managers, and petroleum engineering students.

Topics covered include:

- Drilling rig requirements, selection, and evaluation
- Drilling fluids, including functions, types, selection criteria, evaluation, rheology
- Drilling fluid hydraulics and design requirements
- Drillstring mechanics
- Drill bit mechanics, including types, operational requirements, optimization
- Well control mechanics
- Pore and fracture pressures prediction and application
- Directional, horizontal, and multilateral well drilling
- Cementing and casing design
- Drilling problems and solutions
- Overview of underbalanced, slim hole, and coiled tubing drilling

Key Features & Benefits for the Reader:

- Full understanding of the rotary drilling process and its engineering design aspects
- Recognizing drilling problems and determining solution options
- Design, execution and post analysis of all drilling programs

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## Drilling Engineering By J.J. Azar, G. Robello Samuel Bibliography

- Sales Rank: #1244711 in Books
- Published on: 2007-03-19
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x 1.30" w x 6.20" l, 2.30 pounds
- Binding: Hardcover
- 491 pages

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## **Editorial Review**

### **About the Author**

Dr. J. J. Azar is a McMan Chair professor of Petroleum Engineering at the University of Tulsa. He served as Director of the University's Drilling Research Projects from 1974 to 1996, when he resigned to devote more of his time to teaching. Dr. Azar is a well-known lecturer in drilling engineering and the author and/or coauthor of four textbooks and over 60 refereed publications in technical journals. He is a registered professional practicing engineer and a member of SPE and API. He has served as a member and/or chairman on several SPE committees and as technical reviewer of several engineering journals. He received the 1997 SPE Distinguished Achievement Award for Petroleum Engineering Faculty and the 1998 SPE Drilling Engineering Award.

Dr. G. Robello Samuel received an MS and PhD in Petroleum Engineering from the Tulsa University, an MS in Mechanical Engineering from Anna University, and a BS in Mechanical Engineering from Madurai University. Dr. Samuel has more than 17 years of experience in domestic and international oil/gas drilling and completion operations, management, and consulting. He is currently Senior Technical Advisor (Drilling & Completions) with Halliburton in its Digital and Consulting Solutions division.

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