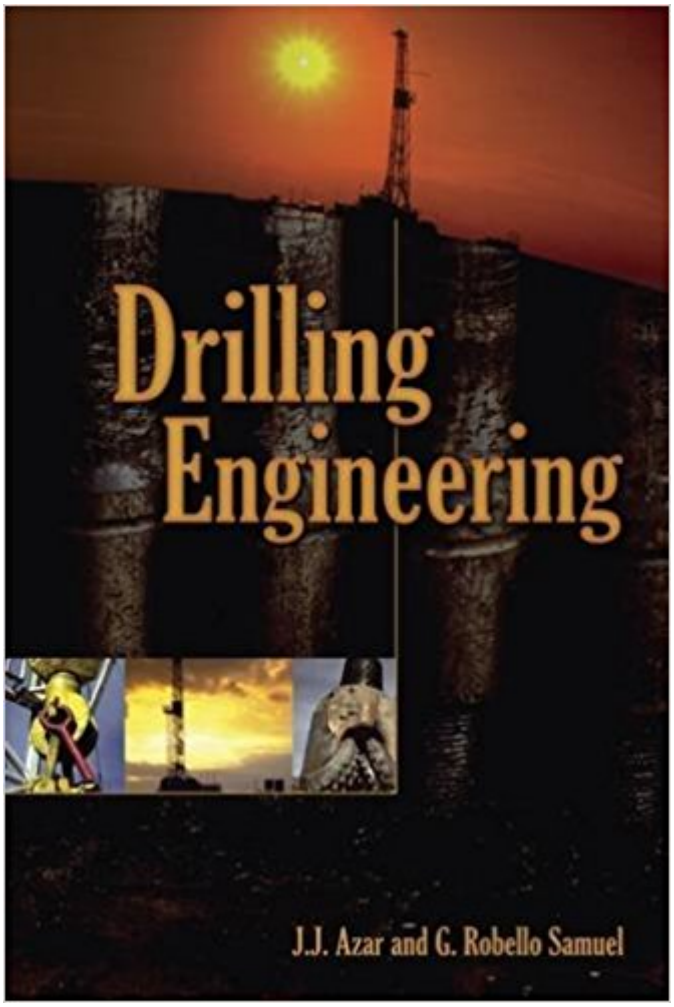
# Drilling Engineering



## Synopsis

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: Ã¢â ¬Â¢ Drilling rig requirements, selection, and evaluation Ã¢â ¬Â¢ Drilling fluids, including functions, types, selection criteria, evaluation, rheology Ã¢â ¬Â¢ Drilling fluid hydraulics and design requirements Ã¢â ¬Â¢ Drillstring mechanics Ã¢â ¬Â¢ Drill bit mechanics, including types, operational requirements, optimization Ã¢â ¬Â¢ Well control mechanics Ã¢â ¬Â¢ Pore and fracture pressures prediction and application Ã¢â ¬Â¢ Directional, horizontal, and multilateral well drilling Ã¢â ¬Â¢ Cementing and casing design Ã¢â ¬Â¢ Drilling problems and solutions Ã¢â ¬Â¢ Overview of underbalanced, slim hole, and coiled tubing drilling Ã Â Key Features & Benefits for the Reader: Ã¢â ¬Â¢ Full understanding of the rotary drilling process and its engineering design aspects Ã¢â ¬Â¢ Recognizing drilling problems and determining solution options Ã¢â ¬Â¢Ã Â Design, execution and post analysis of all drilling programs

## Book Information

Hardcover: 491 pages

Publisher: PennWell Corp. (March 19, 2007)

Language: English

ISBN-10: 1593700725

ISBN-13: 978-1593700720

Product Dimensions:  6.2 x 1.3 x 9.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review:  4.3 out of 5 stars  5 customer reviews

Best Sellers Rank: #555,369 in Books (See Top 100 in Books)  #48 inÃ Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures  #107 inÃ Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Mining  #125 inÃ Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum

## Customer Reviews

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.Ã Â 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.

Loved the book . I’m just a driller but I learn from an engineer’s point of view. From planning and solutions encountered during a well being drilled. I recommend this book to any roughneck who wants to learn more about their job and succeed in the oil and gas drilling industry.y

This book is very helpful for my son, and related with his job as Petroleum Engineer and focusing as Drilling Engineering.

Good book for general knowledge and oilfield familiarization.

Good quality’s book

i was to some extent disappointed with this book this book is not comprehensive, it only provides an outlined general information for each chapter even for the student to start learning about drilling this book will seem boring as far as for practicing drilling engineers it will be either lacking specific information.

Series, Vol 2) Fundamentals of Drilling Engineering (Spe Textbook Series) Drilling Engineering Directional Drilling (Petroleum Engineering and Development Studies) (v. 2) Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Introduction to Coastal Engineering and Management (Advanced Series on Ocean Engineering) (Advanced Series on Ocean Engineering (Paperback)) Tissue Engineering II: Basics of Tissue Engineering and Tissue Applications (Advances in Biochemical Engineering/Biotechnology) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) Engineering Fundamentals: An Introduction to Engineering (Activate Learning with these NEW titles from Engineering!) Biomedical Engineering Principles Of The Bionic Man (Series on Bioengineering & Biomedical Engineering) (Bioengineering & Biomedical Engineering (Paperback)) HomeSkills: Carpentry: An Introduction to Sawing, Drilling, Shaping & Joining Wood The Drilling Gun: History, Use, and Technology of a Universal Hunting Weapon (Schiffer Military History) Deep Water: The Gulf Oil Disaster and the Future of Offshore Drilling: Report to the President, January 2011 Petroleum Rock Mechanics: Drilling Operations and Well Design