

SOCIETY OF PETROLEUM ENGINEERS



Advanced Drilling *and* Well Technology

Bernt S. Aadnøy, Iain Cooper, Stefan Z. Miska,
Robert F. Mitchell, and Michael L. Payne

Advanced Drilling And Well Technology

Eric van Oort



Advanced Drilling And Well Technology:

Advanced Drilling and Well Technology Bernt Sigve Aadnøy, 2009 Advanced Drilling and Well Technology captures the vast developments that have occurred in well technology over the past several decades. The 10 chapters focus on applications related to many of the field-related challenges being faced today such as deepwater and high pressure high temperature wells as well as emerging technologies like managed pressure drilling, expandable casing, coiled tubing drilling, and multilateral wells. *Advances in Oil and Gas Well Engineering* Yongcun Feng, 2024-03-13 Worldwide oil and gas development has shifted from conventional reservoirs to unconventional and deepwater reservoirs characterized by high pressure, high temperature, ultra low permeability, and extensively developed natural fractures. This transition to increasingly hostile environments introduces new challenges in well drilling and completion such as downhole drilling issues, formation damage, and reduced productivity. Aiming to solve the challenges, drilling and completion technologies have excelled greatly in the past two decades. This book covers managed pressure drilling (MPD), the role of artificial intelligence (AI) in refining drilling processes, and the transformative effects of digitalization and automation. Emphasizing efficiency, safety, and environmental responsibility, the book also integrates methods like casing while drilling for improved efficiency, advanced diagnostics for rig safety, stabilization techniques for wellbores in fractured reservoirs, cement sheath integrity maintenance, and the optimization of continuous gas lift. Bridging theoretical concepts with practical applications, the narrative offers insights into both operational techniques and safety strategies drawing from past experiences. The current state of the art, theories, technologies, and practices are covered, bridging the gaps between fundamental theories and engineering applications. Advanced Drilling Engineering G. Robello Samuel, Xiushan Liu, 2009-11-01 Drilling technology has advanced immensely in the past 20 years. Directional drilling, rotary steerable drilling, and other smart downhole techniques and tools have progressed past the typical vertical and horizontal well, allowing drilling engineers to design wells of complex geometry and extract energy resources from remote untapped places. While technology continues to excel, there is a growing need for multidisciplinary information to assist in the design and planning of complex wells. To answer this need, Robello Samuel, with the help of Xiushan Liu, releases a necessary reference titled *Advanced Drilling Engineering*. Samuel and Liu's volume covers full understanding of elaborate drilling processes and engineering well design aspects. Starting with well trajectory and wellbore positioning, they explain well path planning for directional and extended reach wells. Other vital topics include collision avoidance, checking for proximity between neighboring wells, downhole survey tools, plus MWD, LWD, and through-bit logging, and intelligent smart well technology including downhole monitoring tools. **Electro-discharge Technology for Drilling Wells and Concrete Destruction** V. Ya. Ushakov, V. F. Vajov, N. T. Zinoviev, 2018-11-27 This book provides a concise introduction to the physical foundations of the electro-discharge technology and applies it to the drilling of wells, the demolition of reinforced concrete objects, and the cutting of cracks in rocks and concrete. The electro-physical basis of this

technology and the technical implementation of using spark discharge as a working tool in the above mentioned contexts are also briefly considered. The book is intended for all scientists and experts working in the field of resource exploration and extraction those engaged in building new objects and in reconstructing or demolishing old ones. It can also be used as a textbook by students and postgraduates deepening their knowledge of these innovative technologies.

Managed Pressure Drilling: Fundamentals, Methods and Applications Eric van Oort, 2025-05-30. Managed Pressure Drilling Fundamentals Methods and Applications First Edition provides the basic infrastructure and extended support necessary for drilling engineers to apply managed pressure drilling to their operations. Enhanced with multiple new chapters and contributions from both academic and corporate authors, this reference provides engineers with the basic processes and equipment behind MPD. Other sections explain the latest technology and real world case studies such as how to optimize the managed pressure drilling system, how to choose the best well candidate for MPD and how to lower costs for land based operations. Packed with a glossary list of standards and a well classification system, this book is a flagship reference for drilling engineers on how to understand basics and advances in this fast paced area of oil and gas technology. Demonstrates the value in safety improvement, time and cost savings, sustainability and reduced carbon footprint that adoption of MPD brings to well construction. Delivers a fundamental collection on managed pressure drilling equipment, methods, procedures, best practices and field cases. Presents a balance of information that ranges from historical details and background theory to practical application. Includes multiple critical chapters dealing with all major MPD variants, MPD event detection, control systems and automation, how to plan and risk MPD where MPD fits in the well delivery process and its future outlook.

Drilling Engineering Problems and Solutions M. E. Hossain, M. R. Islam, 2018-06-19. Completely up to date and the most thorough and comprehensive reference work and learning tool available for drilling engineering, this groundbreaking volume is a must have for anyone who works in drilling in the oil and gas sector. Petroleum and natural gas still remain the single biggest resource for energy on earth. Even as alternative and renewable sources are developed, petroleum and natural gas continue to be by far the most used and if engineered properly, the most cost effective and efficient source of energy on the planet. Drilling engineering is one of the most important links in the energy chain, being after all the science of getting the resources out of the ground for processing. Without drilling engineering, there would be no gasoline, jet fuel and the myriad of other products that people use all over the world every day. Following up on their previous books also available from Wiley Scrivener, the authors, two of the most well respected, prolific and progressive drilling engineers in the industry, offer this groundbreaking volume. They cover the basic tenets of drilling engineering, the most common problems that the drilling engineer faces day to day and cutting edge new technology and processes through their unique lens. Written to reflect the new, changing world that we live in, this fascinating new volume offers a treasure of knowledge for the veteran engineer, new hire or student. This book is an excellent resource for petroleum engineering students, reservoir engineers, supervisors,

managers researchers and environmental engineers for planning every aspect of rig operations in the most sustainable environmentally responsible manner using the most up to date technological advancements in equipment and processes

Ullmann's Energy Wiley-VCH,2017-06-02 This three volume handbook contains a wealth of information on energy sources energy generation and storage fossil and renewable fuels as well as the associated processing technology Fossil as well as renewable fuels nuclear technology power generation and storage technologies are treated side by side providing a unique overview of the entire global energy industry The result is an in depth survey of industrial scale energy technology Your personal ULLMANN S A carefully selected best of compilation of topical articles brings the vast knowledge of the Ullmann s encyclopedia to the desks of energy and process engineers Chemical and physical characteristics production processes and production figures main applications toxicology and safety information are all found here in one single resource New or updated articles include classical topics such as coal technologies oil and gas as well as cutting edge technologies like biogas thermoelectricity and solar technology 3 Volumes Hydraulic Rig Technology and Operations Les Skinner,2018-11-30 Hydraulic Rig Technology and Operations delivers the full spectrum of topics critical to running a hydraulic rig Also referred to as a snubbing unit this single product covers all the specific specialties and knowledge needed to keep production going from their history to components and equipment Also included are the practical calculations uses drilling examples and technology used today Supported by definitions seal materials and shapes and Q A sections within chapters this book gives drilling engineers the answers they need to effectively run and manage hydraulic rigs from anywhere in the world Presents the full range of hydraulic machinery in drilling engineering including basic theory calculations definitions and name conventions Helps readers gain practical knowledge on day to day operations troubleshooting and decision making through real life examples Includes Q A quizzes that help users test their knowledge

Underbalanced Drilling: Limits and Extremes Bill Rehm,Arash Haghshenas,Amir Saman Paknejad,Abdullah Al-Yami,Jim Hughes,2013-11-25 The present crude oil and natural gas reservoirs around the world have depleted conventional production levels To continue enhancing productivity for the remaining mature reservoirs drilling decision makers could no longer rely on traditional balanced or overbalanced methods of drilling Derived from conventional air drilling underbalanced drilling is increasingly necessary to meet today s energy and drilling needs While more costly and extreme underbalanced drilling can minimize pressure within the formation increase drilling rate of penetration reduce formation damage and lost circulation making mature reservoirs once again viable and more productive To further explain this essential drilling procedure Bill Rehm an experienced legend in drilling along with his co editors has compiled a handbook perfect for the drilling supervisor Underbalanced Drilling Limits and Extremes written under the auspices of the IADC Technical Publications Committee contain many great features and contributions including Real case studies shared by major service companies to give the reader guidelines on what might happen in actual operations Questions and answers at

the end of the chapters for upcoming engineers to test their knowledge Common procedures typical and special equipment involved and most importantly the limits and challenges that still surround this technology Advances in Energy Science and Equipment Engineering II Volume 2 Shiquan Zhou, Aragona Patty, Shiming Chen, 2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 was held on November 12-14, 2016 in Guangzhou, China. ICEESE 2016 brought together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum. The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering, and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas. This second volume of the two-volume set of proceedings covers the field of Structural and Materials Sciences and Computer Simulation, Computer, and Electrical Engineering.

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