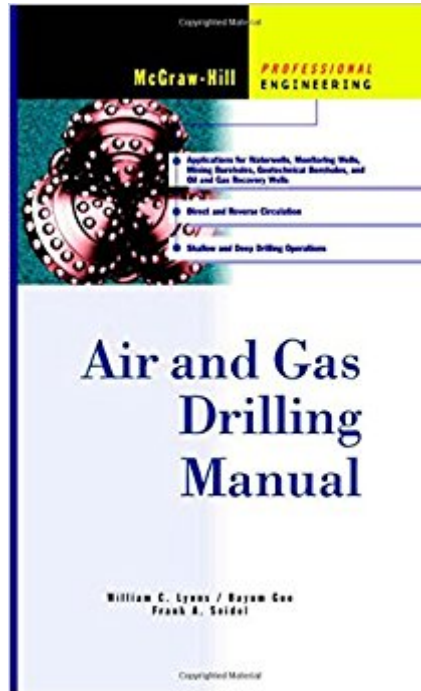




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# Air And Gas Drilling Manual



## Synopsis

Be prepared for drilling's hottest trend According to the U.S. Department of Energy, by 2005, 30% of all wells will be drilled using gas and air. The Air and Gas Drilling Manual, by William Lyons -- an internationally known expert and holder of nine drilling patents -- lays out everything you need to apply air and gas drilling to all kinds of operations, from the most basic to the most complex, and for the shallowest to the deepest. You'll be shown how to: Master the air and gas drilling techniques in vital industries: construction and development of water wells, monitoring wells, geotechnical boreholes, mining operations boreholes, and more Calculate volumetric flow and compressor requirements. Drill with stable foam, unstable foam, and aerated liquids (as well as gas and air) Handle the special considerations of deep hole drilling Perform direct and reverse-flow circulation calculations Specify drills, collars, and casings Engineer and operate specialized downhole projects Plan operations and choose air package contractors

## Book Information

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## Customer Reviews

Be the one with the know-how in drilling's hottest trend Air and Gas Drilling Manual Develop expertise in the technology that's the fastest-growing in the drilling industry. By 2005, 30% of all wells will be drilled using gas and air, according to a U.S. Department of Energy estimate. This comprehensive guide, written by an internationally known expert and holder of nine drilling patents,

lays out absolutely everything you need to design and apply air and gas drilling to all kinds of operations, from the most basic to the most complex, and for the shallowest to the deepest. The Air and Gas Drilling Manual shows you how to: Master the air and gas drilling techniques in vital industries: construction and development of water wells, monitoring wells, geotechnical boreholes, mining operations boreholes, and more. Calculate volumetric flow and compressor requirements. Drill with stable foam, unstable foam, and aerated liquids (as well as gas and air). Handle the special considerations of deep hole drilling. Perform direct and reverse-flow circulation calculations. Specify drills, collars, and casings. Engineer and operate specialized downhole projects Plan operations and choose air package contractors. Typical air packages utilized. Whether you're a geologist, environmentalist, or a petroleum, mining, drilling, groundwater, or other engineer, this definitive, applications-based resource is poised to increase your expertise in this critical new area of drilling technology. Construction Water Wells Environmental Monitoring and Remediation Geotech Boreholes Horizontal Mining Natural Gas Petroleum Vertical Water Wells

William C. Lyons, Ph.D., P.E., holds nine patents in industrial drilling and has been responsible for the development of several important drilling technologies. Editor-in Chief of the Standard Handbook of Petroleum and Gas Engineering, Sixth Edition, he is listed in Who's Who in Engineering. Mr. Lyons teaches engineering at the New Mexico Institute of Mining and Technology. He lives in Albuquerque, New Mexico.

I got to help test-drive this textbook's material by being in a course taught by Dr. Lyons' as the book was being published, and let me tell you, this book is chock full of information about air & gas drilling. The detail is amazing, giving step-by-step examples in calculating flowrates of various drilling methods, such as aerated and foam drilling. Graphs are provided for different flowrates with all the major industry-standard drill pipes, and other helpful graphs such as geothermal gradient, surface temperature and pressure. I took the course using this textbook as part of a Petroleum Engineering curriculum. However, this book applies to a multitude of other industries, because of environmentally-friendly and economic nature. It'll cover all the basics for you. Don't know what kinds of air compressors are out there, and how they work? Need to know the different kinds of drilling platforms are in use? Don't know the difference between direct and reverse circulation? This book has got you covered. Air and gas drilling is the next big thing in rotary drilling.

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