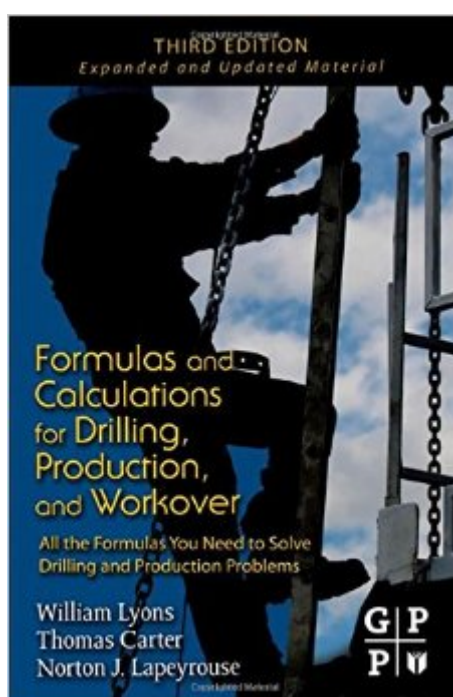


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# Formulas And Calculations For Drilling, Production, And Workover, Third Edition: All The Formulas You Need To Solve Drilling And Production Problems



## Synopsis

Formulas and Calculations for Drilling, Production, and Workover: All the Formulas You Need to Solve Drilling and Production Problems, Third Edition, provides a convenient source of reference for oil field workers who do not use formulas and calculations on a regular basis. This book is still intended for the entirety of their careers. It also aims to help reduce the volume of materials they must carry to the rig floor or job site. Starting with review of basic equations and basic calculations, the remaining chapters offer in-depth discussions of topics such as drilling fluids, pressure control, engineering calculations, and air and gas calculations. The formulas and calculations are provided in either English field units or in metric units. This edition includes the Volumetric Procedure, the Lubricate and Bleed Procedure (both Volume and Pressure Methods), and stripping procedures (both the Strip and Bleed Procedure and the Combined Stripping and Volumetric Procedure). The Table of Contents and the Index make looking up formulas and calculations quick and easy. Examples are used throughout to make the formulas as easy as possible to understand and work, and often exact words are used rather than symbols. Back-of-the-envelope calculations that save time and money. Easily evaluate the performance of your well. Confidently design or redesign operations that will improve production. Handle special production projects with ease.

## Book Information

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## Customer Reviews

Used as a primary or a secondary reference source by oil field personnel, this compact book contains tons of formulas and calculations that are needed on the field for drilling and other

engineering endeavour. Touted as a handy reference for "non-math" users (those who don't run the detailed calculations on a daily basis), the new edition contains additional formulas and calculations, Volumetric Procedure, Lubricate and Bleed Procedure, and stripping procedure. Designed to condense much-used formulas and calculations that one would otherwise need to retrieve from armful of books, this spiral-bound version reminds me of the formulas and calculations books I used in college for my math and chemistry classes. All the necessary math and formulas that one may encounter in the field are right here. Several useful appendices and an index to go along with this nifty little publication. One note of dissatisfaction - the text is printed on thin, non-glossy papers. Given this is a book designed to serve field oil workers, a heavier coated stock of paper will probably make the book last longer and cleaner. Plastic coated pages will even be better. Another reviewer has mentioned the same point. It's worth noting since this is not a book designed for "classroom" use but, rather, for the rough-and-tough oil fields.

This book is an excellent reference source for oil field personnel. What it has going for it is the sheer volume of information and formulas in it, the simplicity of that information in how it is laid out, organized and given to you and the convenience of it. I think what is inside the book is top notch, but the quality of the book itself suffers some because it seems a little cheap and like it will fall apart easily out in the field unless you are extremely careful with it and it only goes from your clean dainty hands to your bag or briefcase. Even just laminating the cover would have added protection and sturdiness to it. I also would have preferred a section where I could add some of my own notes.

As with most Gulf Professional Publications, this book is an excellent aid for people actually working in the petroleum industry. In particular, people working out in the field dealing with Drilling and Production of oil and gas wells will find this valuable. As a geologist working more on horizontal wells of late, I find the Directional Drilling Calculations to be the most useful part of the book. My husband has also found it useful for writing software for the oil and gas industry. The book is divided into the following sections: 1. Basic Equations (Mud Weight, Specific Gravity, Hydrostatic Pressure, Equivalent Circulating 'Density', etc.) 2. Basic Calculations (Capacity, Drill String Design Limitations, Stuck Pipe Calculations) 3. Drilling Fluids (Mud Density, Mixing Fluids, Solids Analysis) 4. Pressure Control: Kill Sheets and Related Calculations (Kick Analysis, Annular stripping procedures) 5. Engineering Calculations (Bit Nozzle Selection, Hydraulics Analysis, Direction Drilling calculations) 6. Air and Gas Calculations There are also 3 Appendixes, and an Index. Each Appendix has a wealth of information, such as tables, like the Drill Pipe Capacity and Displacement

table, Volume calculations for tanks of various sizes, Drill Collar Capacity and Displacement Tables, etc.

This book delivers as promised. Thankfully, it is light both on the Greek and the calculus, and relies principally on simple arithmetic, with a little bit of intermediate algebra (equations of a line, exponents and roots), thrown in for good measure. This handy reference states all conversions for the calcs up-front, and presents all the solutions to the calcs in any easy, step-by-step fashion, including all the equations, their variables and their units. The book contains every single calculation that the driller would conceivably need to get the resource out of the ground- make the hole pay- all in a small, slim volume. The authors get a lot of points for their economy of style. The only two demerits to the volume that I can see are the ease of turning the pages (a minor demerit, mostly due to the size of the holes in each page and the spiral binding) and the paper stock used (a major demerit). With regard to the latter, since the authors intend for this to be a field book, and drilling tends to be a very dirty operation, frequent page-turning would ultimately result in an illegible book, given all of the oil and mud-stained fingerprints one will ultimately leave on its pages. A major improvement that would lend to its greater durability (and value) in subsequent editions would be to either use glossy paper or better yet- coat each page in plastic sheeting. Such a modification would allow the drilling operator to literally carry it on the oil pad/rig, and do the calcs on the spot (while hopefully giving his drilling crew a badly needed hand). The authors (and Gulf Publishing) have delivered yet another home run. While already a handy and valuable reference, with one last adjustment to make the book a bit more durable (albeit at very likely a significantly increased cost), this book will become an extremely valuable keeper.

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