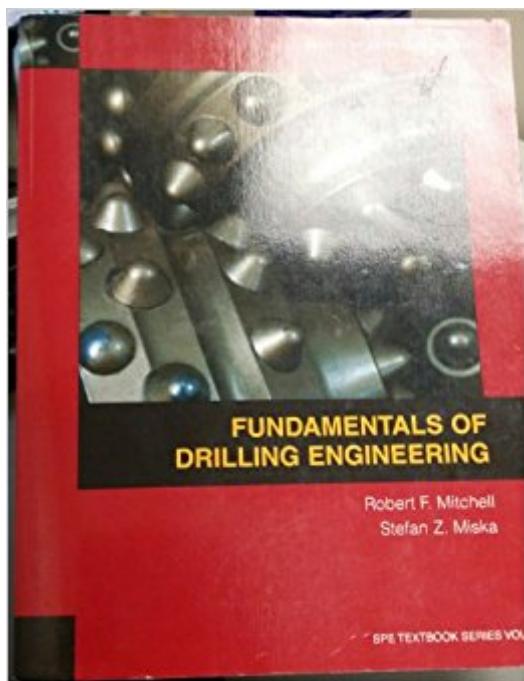


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# Fundamentals Of Drilling Engineering (Spe Textbook Series)



## Synopsis

Introduction to rotary drilling • Introduction to geomechanics in drilling • Drilling fluids • Cementing • Drilling hydraulics • Rotary drilling bits • Casing design • Directional drilling • Fundamentals of drillstring design • Drilling problems

## Book Information

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## Customer Reviews

Introduction to rotary drilling • Introduction to geomechanics in drilling • Drilling fluids • Cementing • Drilling hydraulics • Rotary drilling bits • Casing design • Directional drilling • Fundamentals of drillstring design • Drilling problems

The title says it all. Your not going to just pick this book up and understand it without prior knowledge, but it is full of useful information and equations to be utilized by engineers. I would recommend it to anyone in the industry looking for a good reference. The text is relativity easy too look at and is organized in a sensible fashion. This was supplemental text for a class I took and helped me greatly on the final.

Good reference for drilling engineers.

Classic reference book.

The book has a very technical approach. It's not hard to read, and it is well illustrated. It requires some knowledge in the area.

SPE TEXTBOOK SERIES VOL 12, Fundamentals of Drilling Engineering is the most recent SPE drilling textbook. Not yet as popular as its predecessor VOL 2 (it's only been out since 2011, give it time), it has improved upon VOL 2 in many ways. Crystal-clear pictures. Diagrams of readable size. It also takes pains to teach the subject. Written for university upperclassmen, it's technical but not overly so for engineers of moderate experience. Subjects covered: Rotary drilling, Geomechanics, Drilling Fluids, Cementing, Drilling hydraulics, Rotary drilling bits, Casing design, Directional drilling, Drillstring Design, Drilling Problems. 200 pages longer than VOL 2 (700 versus 500 pages) and weighing in at nearly 3.5 lbs, it's the real deal. The extra length is because:  
a) It is a better teaching textbook with lengthy explanations.  
b) It has clear, large photos, and neatly drawn pictures and diagrams.  
c) Recent technology is included.  
d) Written by multiple authors, it is not as crisp and streamlined as VOL 2.  
e) Drillstring Design, Directional Drilling, and Drilling Problems Chapters are superior.  
f) It has API SPEC in each chapter (this is valuable for the PE Exam).  
Note that all these extras make the book somewhat unwieldy and floppy. It's not the kind of book one would want to lug around the field. I generally dislike books with each chapter written by a different author, but the quality and style of VOL 12 is fairly consistent throughout making it's easy to ignore the mixed-author issue. Mitchell and Miska did a fabulous job building consistency between the author's styles. In contrast, VOL 2 had only four authors who didn't split up the chapters, making VOL 2 a tighter product. This book did add most of what was lacking in VOL 2. I'll list just a few specifics from chapter seven to give the flavor: an in-depth discussion of casing design, including load line graphing (page 431) and a casing hole size chart (page 421, something I've only seen in OCTG manuals). It finally has a decent chapter on drilling design, and a whole chapter on just drilling problems. I could go on. But there are still a few minor gaps remaining; it strangely lacks the in-depth calculation example of combined stress that VOL 2 has (which was on an older PE Exam from 2005, so it should have been included). If I could own only a single drilling textbook, this is it. It's a must have for the PE Exam. It's very complete and cogent, albeit a bit large. But if one is not limited to a single text, I'd also spring the \$50 for a used copy of VOL 2 as well, if only for field use and to fill in the few remaining gaps.

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