



# Casing and Liners for Drilling and Completion, Second Edition: Design and Application (Gulf Drilling Guides)

By Ted G. Byrom

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Once thought of as niche technology, operators today are utilizing more opportunities with casing and liners as formations and environments grow in difficulty, especially with the unconventional oil and gas boom. Casing and liners for Drilling and Completions, 2nd Edition provides the engineer and well designer with up-to-date information on critical properties, mechanics, design basics and newest applications for today's type of well. Renovated and simplified to cover operational considerations, pressure loads, and selection steps, this handbook gives you the knowledge to execute the essential and fundamental features of casing and liners. Bonus features include:

- Additional glossary added to explain oil field terminology
- New appendix on useful every day formulas such as axial stress, shear stress in tubes and principal stress components
- Listing section of acronyms, notations, symbols and constants for quick reference
- Concise step-by-step basic casing design procedure with examples
- Thorough coverage and tips on important field practice for installation topics
- Advanced methods for critical and horizontal well casing design including hydraulic fracturing
- Exhaustive appendices on foundational topics: units & nomenclature, solid mechanics, hydrostatics, borehole environment & rock mechanics, and a summary of useful formulas

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"An excellent book in a leading and complex topic of casing and liners for drilling and completion. This book has so much to offer to a wide community of drilling, geotechnical, mechanical and production engineers as well as research students." --**Reza Looyeh, Project Manager**

#### **About the Author**

Ted Byrom is a Consulting Engineer with over 50 years of experience in the industry, primarily in drilling, completion, and well intervention. After completing his BSc degree in Petroleum Engineering from Texas A&M, he began his professional career with Unocal eventually becoming a district drilling superintendent. He later earned his MSc and PhD degrees in aerospace engineering, both from Texas A&M University, while teaching numerical methods and finite element methods at Texas A&M and doing research at NASA Langley Research Center, University of Virginia and the Center for Mechanics of Composites. After working with Oryx as Drilling Technology Consultant, he formed his own consulting agency in 1994, and is also currently a course designer and instructor for Petroskills developing and teaching courses on horizontal well technology, coiled tubing, cementing, and casing design. Byrom has co-authored one other textbook on finite element methods and is a licensed professional engineer in the state of Texas, a member of ASME, a Legion of Honor Member of SPE, and a recipient of an SPE Outstanding Technical Editor Award for the SPE Drilling and Completion Journal.

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