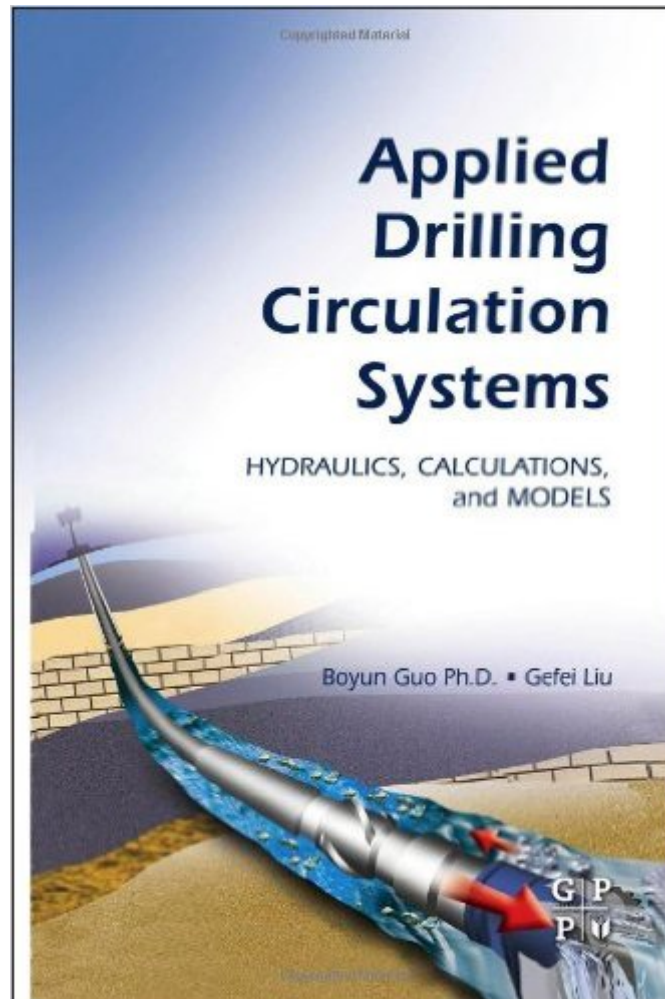


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# Applied Drilling Circulation Systems: Hydraulics, Calculations And Models



## Synopsis

Used to clean the borehole, stabilize rock, control pressures, or enhance drilling rates, drilling fluids and their circulation systems are used in all phases of a drilling operation. These systems are highly dynamic and complicated to model until now. Written by an author with over 25 years of experience, *Applied Drilling Circulation Systems: Hydraulics, Calculations and Models* provide users with the necessary analytical/numerical models to handle problems associated with the design and optimization of cost-effective drilling circulation systems. The only book which combines system modeling, design, and equipment, *Applied Drilling Circulation Systems: Hydraulics, Calculations and Models* provides a clear and rigorous exposition of traditional and non-traditional circulation systems and equipment followed by self contained chapters concerning system modelling applications. Theories are illustrated by case studies based on the author's real life experience. The book is accompanied by a website which permits readers to construct, validate, and run models employing Newtonian fluids, Bingham Plastic fluids, Power Law fluids, and aerated fluids principles. This combination book and website arrangement will prove particularly useful to drilling and production engineers who need to plan operations including pipe-tripping, running-in casing, and cementing. In-depth coverage of both on- and offshore drilling hydraulics. Methods for optimizing both on- and offshore drilling hydraulics. Contains problems and solutions based on years of experience.

## Book Information

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## Customer Reviews

This book is concise and it covers exactly what is described in the title. It is intended for people that need to be able to model drilling circulation systems at a practical level. As a small drilling company with a good engineering background, this book gave us the overview and details we needed to understand our drilling circulation system and start making improvements. There are lots of references if you need additional information regarding the derivation of a specific equation. This is not a book on drilling muds, although it does have some detail regarding various fluid properties. If you need details on how to mix up a mud with specific properties, this is not the book you need.

While this reference provides great insight to how and why mud properties are set, it is probably more suited to Mud Engineers than Derrickmen

Good product.

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